RAVS
Remote Access Video Surveillance
E-Series and I-Series
User Guide & Installation Manual

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I. About Elite Series

For years CCTV system operators have worked with transmission media such as coaxial cable, fiber optics and microwave. Each of these is limited by distance and/or physical barriers and can be very expensive to install and maintain. Often, a long distance transmission system, such as Elite Series, utilizing an internet or intranet connection is a simpler, more cost effective alternative. The necessary lines are already in service so that there is virtually no limit on where information can be sent.

By simply plugging a video transmission system into a TCP/IP network (Internet/Intranet), an easy and practical video transmission can be effectively achieved between two locations. Some examples include:

- Restaurants
- Convenience Stores
- Retail Stores and Supermarkets
- Utility Companies
- Fast Food Chains
- Car Dealerships
- Gated Communities
- Universities
- Banks
- Gas Station Chains

General Information

The Elite Series Remote Video Surveillance System is composed of a Plug&Play unit and the Elite Series Receiver software. The system was designed and pre-configured at the factory for easy installation and operation.

The Elite Series unit captures real-time video images for local display (built-in multiplexer function), local recording and playback (digitally records images on HDD thus eliminating the need for VCRs/Time Lapse Recorders) and transmission to any PC equipped with the Receiver software. Additionally, the Elite Series unit has a real-time TV monitor.

The Receiver is a standard PC-compatible system equipped with the Receiver software. Installation of the Receiver unit consists of merely a software installation and configuration of the network settings.

This Elite Series unit is shipped with all of the necessary hardware and software already installed and configured. All you need to do is connect the video cameras, power, and communications.

Depending on the model, there may be 4 or 16 video inputs. The four channel units are functionally identical to the 16 channel units, except that the display modes are limited to one or four images. The 16 channel units also have 9 and 16 image display modes.

Features

- Plug&Play unit
- High Speed Intel Processor
- 10/100/1000 LAN Connection
- Local real-time video output

- Up to 16 video inputs
- Simultaneous recording, display, and transmission
- Alarm Inputs (optional)
- Local Video Recording
- Local Audio Recording
- Local Video & Audio Playback
- Motion Detection
- Remote Viewing Software
- Video File Management System (Local and Remote)
- LAN or PSTN communications
- P/T/Z and Focus control (Remote and Local)
- Relay control (Remote and Local)
- Time/Date Stamps
- Password protection

Primary Functions

Digital Video Recorder

The Elite Series unit can be used simply as a Digital Video Recording System, effectively replacing a multiplexer and Time Lapse Recorder. Images can be displayed on a monitor in real time, or recorded onto HDD and recovered and played back later with the aid of a powerful Video File Management System.

Business Surveillance System via Internet

The Elite Series Unit can be installed in a business office or store. By connecting into this unit via internet or from a PC at any remote location, the owner is able to monitor their property, business, and/or employees. If the Elite Series unit is connected to a permanent IP address, it can be accessed from anywhere in the world through the Internet. Cable and DSL connections are becoming more readily available at low cost, and it is now feasible to have a high-speed, permanent Internet connection in the small business environment.

Alarm Verification System

When an installed alarm system is activated and communicates with a Security Office, it can also be connected to an Elite Series unit and trigger a connection to any remote PC via TCP/IP Network or modem connection. Thus, it can be programmed, for example, to call the store owner's PC, or to send images to the Security Company. This way, the Security Company or business owner can verify if the alarm was genuine, and what is happening at the Elite Series site. The Video Image Storage also allows verification of pre and post-alarm video, and is recorded onto HDD for possible evidence. In addition, as the Elite Series Unit is small, unobtrusive, and does not require any routine maintenance, it can be concealed from the sight of any possible intruder.

Corporate Remote Management System

Elite Series units can be connected on a Corporate LAN/WAN and accessed by any PC connected to the same network. Other units may be remote to the LAN/WAN, but be accessible via the Internet. In this way, multiple sites can be monitored by multiple PC's, enabling the system to be used for remote management, surveillance, security, and other functions.

II. Installing Elite Series

This guide explains how to install, configure, and troubleshoot the Elite Series Surveillance Systems which includes the Elite Series and the Elite Series Client Software. Place the installation CD in the CD drive and follow the installation directions.

Before Beginning

Before you begin the installation of the surveillance system, it is important that you note:

The Elite Series unit should be plugged into a UPS (Uninterruptible Power Supply) unit however it will not only protect the Elite Series from power surges, but it will also supply power to the unit for a period of time in the event of a power outage.

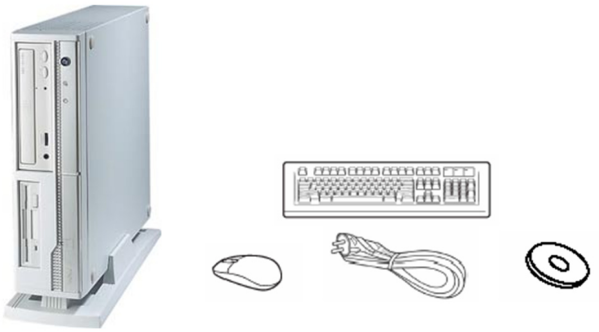
The following components are not part of the Elite Series package; however, they are required for the surveillance system to operate.

- Video camera (at least one, up to four or sixteen depending on system model)
- Video cable for each camera

Installation of the Elite Series surveillance system does not require any special tools. However, you need the following equipment to complete the installation:

- VGA Monitor or Security Television
- An Internet or Intranet connection with a registered, static IP address, or a modem connection.

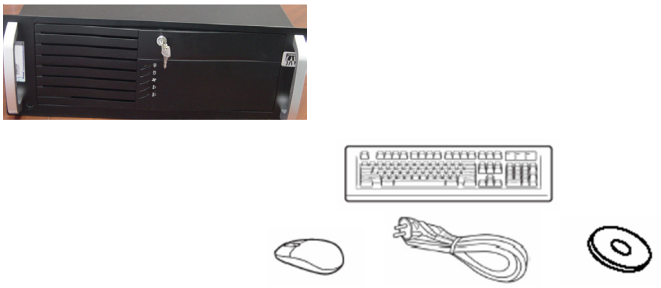
Package Contents (E-Series)



- Elite Series Unit(4/16 channel)
- Program CD
- RAVS User manual
- Keyboard & Mouse
- Power cable
- TCP/IP Cable
- Modem Cable
- Speakers

Note: The Elite Series unit should be removed carefully from its shipping case and inspected for any damage caused in transit. Should any damage be found, your supplier and or shipper should be advised immediately so that adequate insurance claims may be made.

Package Contents (I-Series)

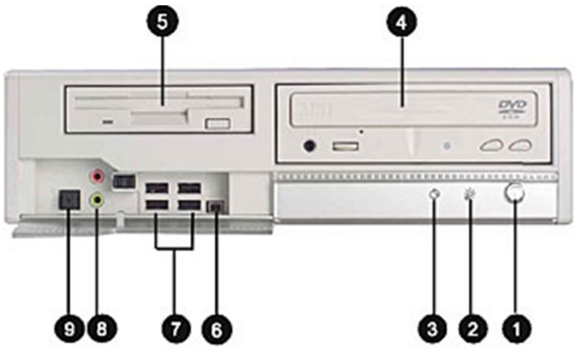


- I-Series Unit(16 channel)
- Program CD
- RAVS User manual
- Keyboard & Mouse
- Keys
- Power cable
- TCP/IP Cable

- Modem Cable
- Speakers

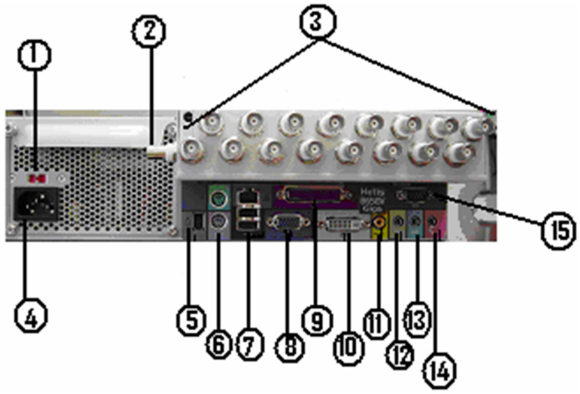
System Layouts

Front of 16 Channel E-Series Unit



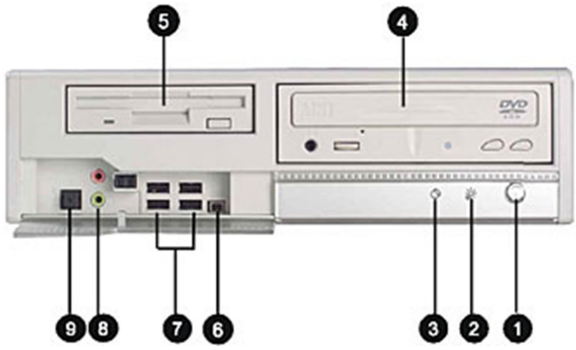
1) On/Off Switch
2) Power LED
3) HDD LED
4) CD-RW/ DVD-RW(DVD-RW optional)
5) Card Reader / Floppy drive (optional, drive not included)
6) 4-pin IEEE 1394 port
7) 4 x USB 2.0 port
8) Mic(top), Line-out(bottom)
9) SPDIF

Rear of 16 channel E-Series Unit



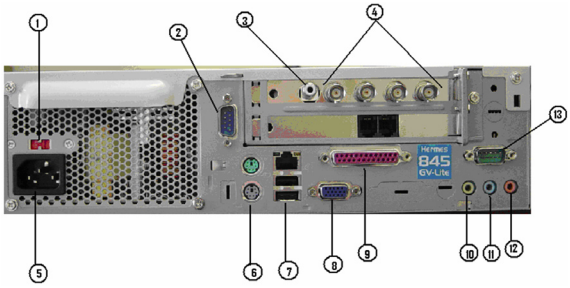
1) Voltage Selection Switch(115/230v)
2) Video Output Connector
3) Video Input Connectors (1 thru 4 or 16)
4) AC Input
5) 6-pin IEEE 1394 port
6) Mouse (above)/Keyboard (below) connectors
7) LAN/Ethernet (above) and USB (below) connectors
8) VGA Connector
9) Parallel Port Connector
10) Digital Monitor Connector
11) Video Output(AV-out)
12) Line Out(Green)
13) Line In(Blue)
14) Microphone(Pink)
15) Serial Port(9 Pin)

Front of 4 Channel E-Series Unit



1) On/Off Switch
2) Power LED
3) HDD LED
4) CD-RW/ DVD-RW(DVD-RW optional)
5) Card Reader / Floppy drive(optional, drive not included)
6) 4-pin IEEE 1394 port
7) 4 x USB 2.0 port
8) Line-in(top), Line-out(bottom)
9) SPDIF

Rear of 4 Channel E-Series Unit



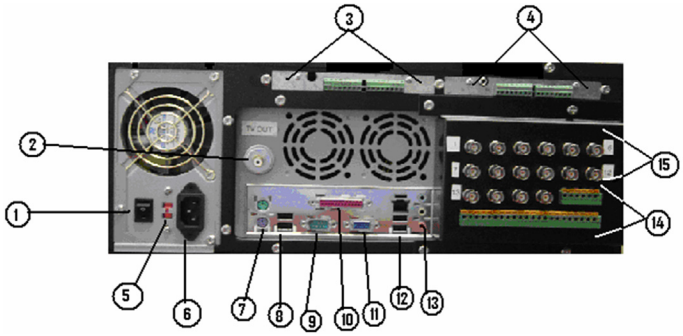
1) Voltage Selection Switch (115v/230v)
2) Serial Port
3) Video Output Connector
4) Video Input Connectors (1 thru 4)
5) AC Input
6) Mouse (above)/Keyboard (below)
7) LAN/Ethernet (above)/USB Connectors (below)
8) VGA Connector
9) Parallel Port Connector
10) Line Out (Green)
11) Line In (Blue)
12) Microphone (Pink)

Front of I-Series Unit

Access to the front of the I-Series unit is by key. Behind the panel you can access the power switch, while with the panel closed, you view a line of indicator lights. Only the top two are used with this unit. The top light indicates power, and the second light (when red or flashing) indicates activity in the hard drive.

Rear of I-Series Unit

1) Power Switch
2) Video Output
3) Audio 1-8
4) Audio 9-16
5) Voltage Selection Switch
6) Power Cable Plug-in
7) Mouse(above)/Keyboard(below)
8) USB Ports(2)
9) Serial Port
10) Parallel Port
11) VGA
12) LAN/Ethernet (above)/USB Ports (below)
13) Line Out (Green)/Line In (Blue)/ Microphone (Pink)
14) Relays(1-16)
15) Video Input(1-16)



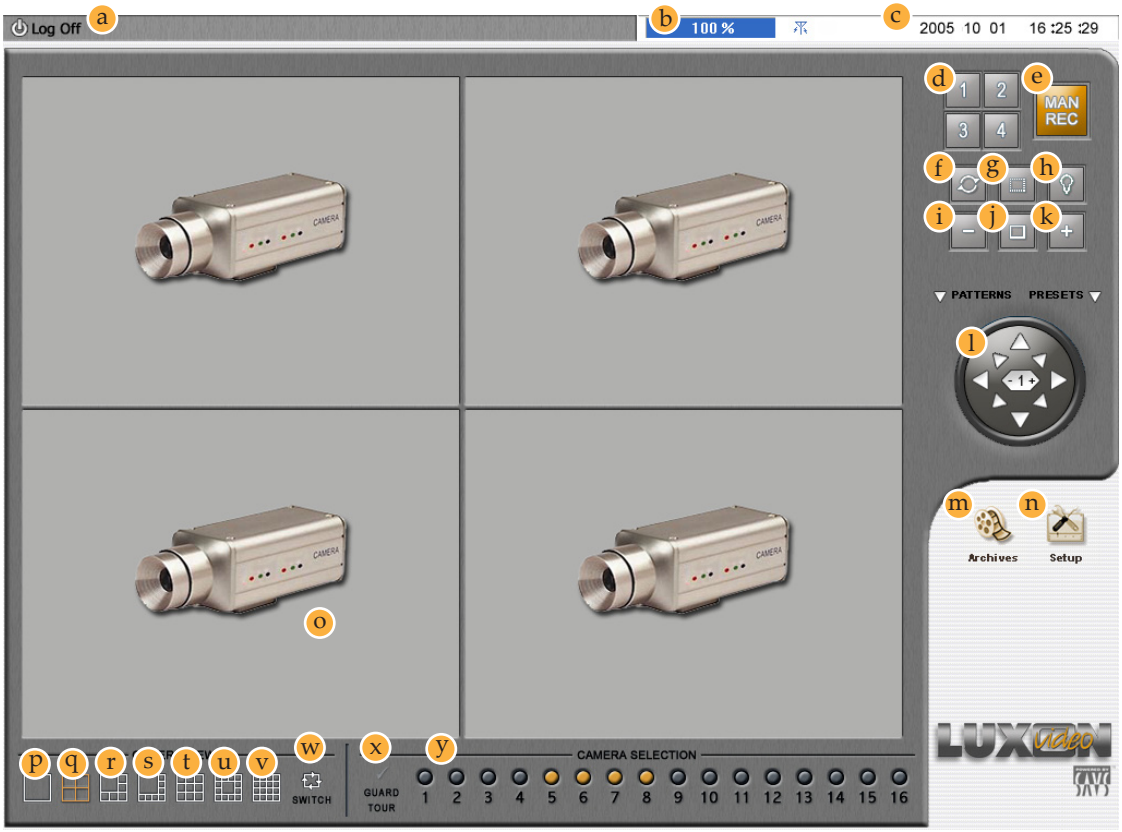
Communications

The Elite Series can communicate over an Intranet or Internet connection from a DSL, Cable connection with a static IP address, dynamic, local and URL forwarding service, or over a standard modem connection. However, to connect the unit remotely over an IP Network, there must be a registered, static IP address assigned to the Elite Series system.

III. Elite Series Configuration

Upon initial power up, if no cameras are connected, the following screen will appear for 4 channel units while 16 channel units display a 16 camera screen.

Note: If cameras have been connected, the video images will appear in place of the camera icons.

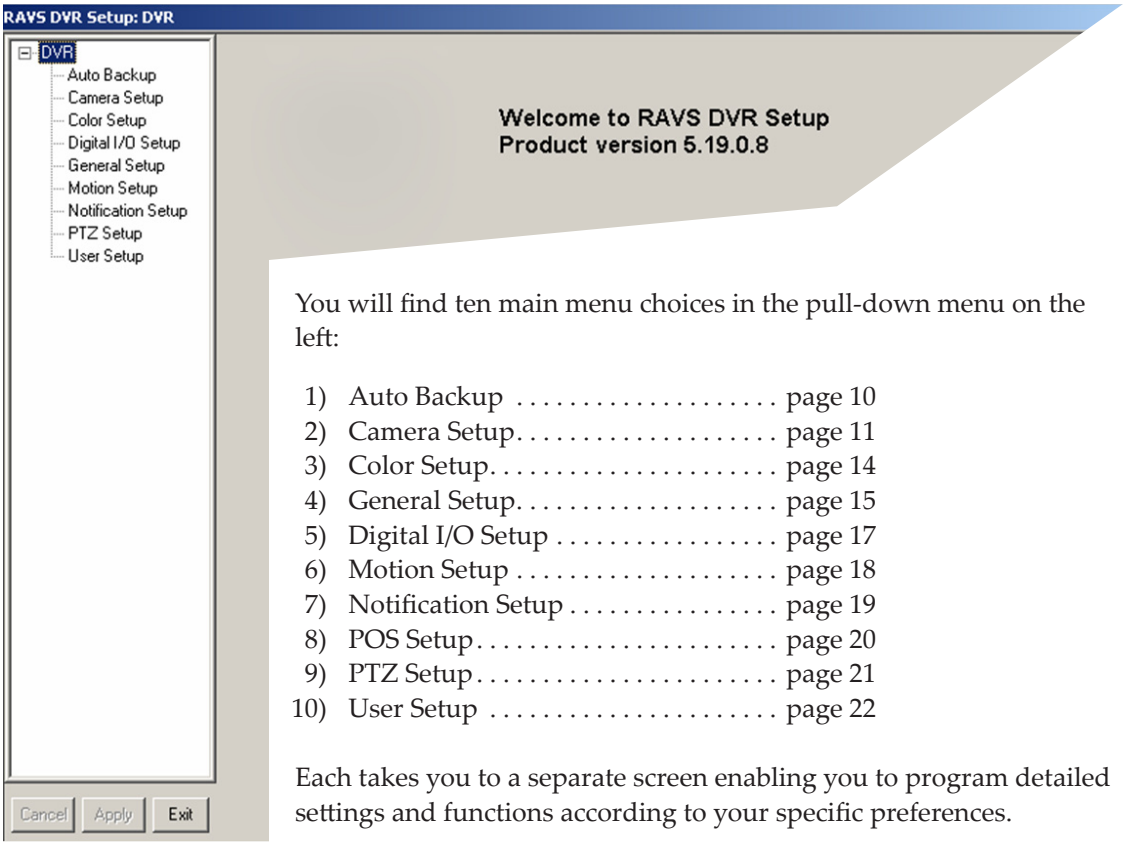


a Log Off Button
b Shows Current Image Box Status
c Day, Time, and Program Status Display
d Digital Output (DO) Controls – 1,2,3,4
e Manual Recording Button
f Auto Pan
g j Near/Far: Pan/Tilt focus controls for near/far video
h Camera Light
i k Zoom in/out controls
l PTZ Power and Direction Keys. To have this function available, the "Enable PTZ" box must be checked in the PTZ Setup.
m Takes you to the "Search"/ "Archives" screen
n Takes you to the "Setup" screen
o If no video input, this image will occupy the respective display window.
p Click to view a single video display
q Click to view a four-video display
r Click to view a six-video display
s Click to view a eight-video display
t Click to view a nine-video display
u Click to view a thirteen-video display
v Click to view a sixteen-video display
w Automatically switch video monitoring between one, four, and eight videos.
x Guard Tour
y Pan/Tilt Camera Number: Selects the pan/tilt capable camera you wish to control from the bottom selection bar.

Logging in/Beginning Setup (System Configuration)

In order to begin system configuration, click the Setup icon. Doing so will bring up the set up screen and a log in screen as shown here.

In order to proceed, a user name and password must be entered. For installation purposes, "admin" has been programmed as the default user name and "super" has been programmed as the default password.



You will find ten main menu choices in the pull-down menu on the left:

1) Auto Backup . . . . . page 10
2) Camera Setup. . . . . page 11
3) Color Setup. . . . . page 14
4) General Setup. . . . . page 15
5) Digital I/O Setup . . . . . page 17
6) Motion Setup . . . . . page 18
7) Notification Setup . . . . . page 19
8) POS Setup. . . . . page 20
9) PTZ Setup. . . . . page 21
10) User Setup . . . . . page 22

Each takes you to a separate screen enabling you to program detailed settings and functions according to your specific preferences.

Auto Backup

This screen appears when the "Auto Backup" selection is chosen. Here you can set up the Elite unit to automatically back up your video files on specific day(s)/time(s) and to a specific hard drive.

Archiving

In this mode, you can select the hard drive you want the back up input to be saved to. To do this, select the "Real Time Archiving" box. Next, select the hard drive you want to use from the "Mapped Network Drive" pull-down menu.

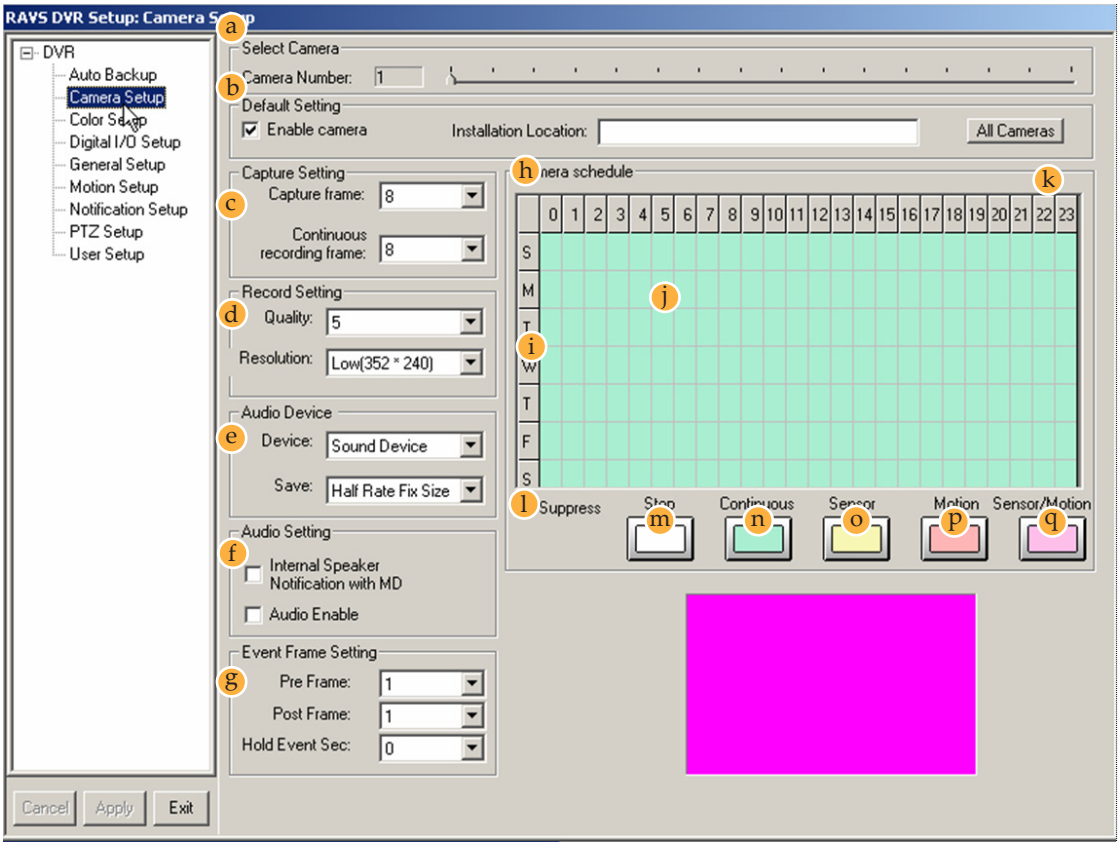
FTP

Here, you can program the system to perform an FTP Backup. To do so, check the "FTP Backup" box and fill in the desired server, user name, password and path. When finished, the back up will automatically be saved to these chosen settings.

Note: The basic Elite units are furnished with one HDD only, although these can be partitioned to give virtual HDDs. Also, special systems may be supplied with multiple drives, or external drives can be used. CD-RW units may be used for back up.

Camera Setup

Choosing "Camera Setup" from the main menu will bring up this screen:



a Select Camera Mode

Select Camera Mode allows you to select specific cameras and program options into each one separately. The hatch marks along the selection bar are in correlation to the cameras connected to the system (1 through 16). Moving the cursor to a marked space selects that particular camera and the settings you choose while that camera number is selected will be applied and saved only to that camera. Should you choose to give all cameras the same settings you can do so at once by clicking on the "All Cameras" box in the Default Setting Mode under this section. This selects and programs all the cameras at once.

b Default Setting Mode

In "Default Setting Mode" you can enable/disable each camera. Checking the "Enable Camera" box will enable all or the selected camera you chose in "Camera Setting Mode". The "Installation Location" box allows you to label or name the selected camera. It is this labeling

that will appear on the display screen if you selected the “Camera Location” option in the “On Screen Display Mode” of Default Setup.

c Capture Setting Mode

Here you can choose the amount of frames to be captured and seen on screen and record onto the HDD. “Capture Frame” refers to the number of frames that will be seen on the screen and recorded. “Continuous Recording Frame” references the number of frames recorded on the HDD only in continuous or manual record mode. The number in the “Continuous Recording Frame” may not exceed the number in “Capture Frame” as you cannot record more frames than are seen. If you want to record four frames per second on the HDD, then you must be observing four frames per second on the screen. From the drop down menu, select the number in accordance to the amount of frames you want captured in both cases.

Note: Motion Detection recording uses display mode.

d Record Setting Mode

Here you can select settings for resolution and quality of the recordings. The program supports three resolution settings: Low (325x240), High (704x240), and Progressive (704x480). The default resolution is Low (325x240). Note that the higher the resolution, the larger the image files’ size. Consequently, the HDD usage is higher.

The recording quality can be set ranging from 0(low) to 9(high); the default setting is 5. As with the resolution, the higher the quality setting selected, the larger the sizes of the file. Additionally, when setting the resolution, do not select Progressive (704x480) unless you are using a progressive scan camera. You will record interlaced video if using a regular camera instead of the required Progressive CCTV cameras. Instead, if you want your video capture at 704x480, select High (704x240) and the unit will capture the video at this setting and display it at 704x480 for playback.

e Audio Device Mode

An audio device is not a system requirement although one can be supported by the system should you choose to use one. If using the E-Series unit, the default sound device should remain selected from the dropdown menu. Hera boards are only used on 16 channel I-Series units; select this option if you are using sound on one of these machines. The second dropdown menu labeled “save” gives you setting choices for the quality of the audio to be transmitted by the system. Here the default setting is “full”. It is recommended that this default setting be used permanently.

f Audio Setting Mode

Using this section of the menu, you can activate the audio option. If audio is to be used, check the “enable audio” box to enable the setting. You can also have the system give an audible notification through the computer’s internal speakers upon motion detection. To do so, check the “Internal Speaker Notification with MD” box.

g Event Frame Setting Mode

In this mode, you can configure the settings for recording in the Sensor, Motion, or Motion & Sensor modes. When an event is triggered in either mode, you have the option of recording up to 8 frames before and after the event itself. Use the pull-down bars labeled “Pre Frame” and “Post Frame” and select the number of frames you want recorded surrounding the event. By using “Hold Event” you can select an amount of holding time between when the Sensor, Motion, or Sensor & Motion modes are triggered, and when the recording begins. Use the pull-down menu to select the appropriate amount of time in seconds.

h Camera Schedule Mode

Here you can enable different recording options or program a specific recording schedule.

1) Represents the days of the week from Sunday-Saturday (top to bottom).
2) Grid boxes, when checked, correlate specific days and times in order to create a recording schedule.
3) Represents the hours of the day from 12:00 a.m. to 11:00 p.m. (left to right).
4) Suppress: If the "Suppress" box is checked, the camera will NOT be viewable locally although the input WILL be recorded. If you log in remotely as a super user, the camera will be viewable and recorded. This option is useful if the system administrator wishes to record a hidden camera without the knowledge of the system operators.
5) Stop: (white button) If this button is
6) Continuous: (green button) Images will be recorded continuously.
7) Sensor: (yellow button) Records images when the Elite unit receives a signal from a DI sensor.
8) Motion: (pink button) Records images when motion is detected on any one of the areas pre-programmed to activate upon motion detection.
9) Sensor & Motion: (purple button) Records images when motion is detected in one of the pre-programmed areas or when the Elite unit receives a signal from a DI sensor.

How to set up a recording schedule

Recording schedules can be unique to each specific camera. Before programming a schedule, check the number of the camera you wish to program in the "Camera Setting Mode" above. Also, one schedule can be created for all cameras; be sure the "A" button is selected in "Camera Setting Mode" meaning "all cameras." Once you have chosen one or all of the cameras, you can begin creating the schedule.

Start by choosing one of the commands (numbers 4-9) to select what kind of recording you want the schedule to initiate.

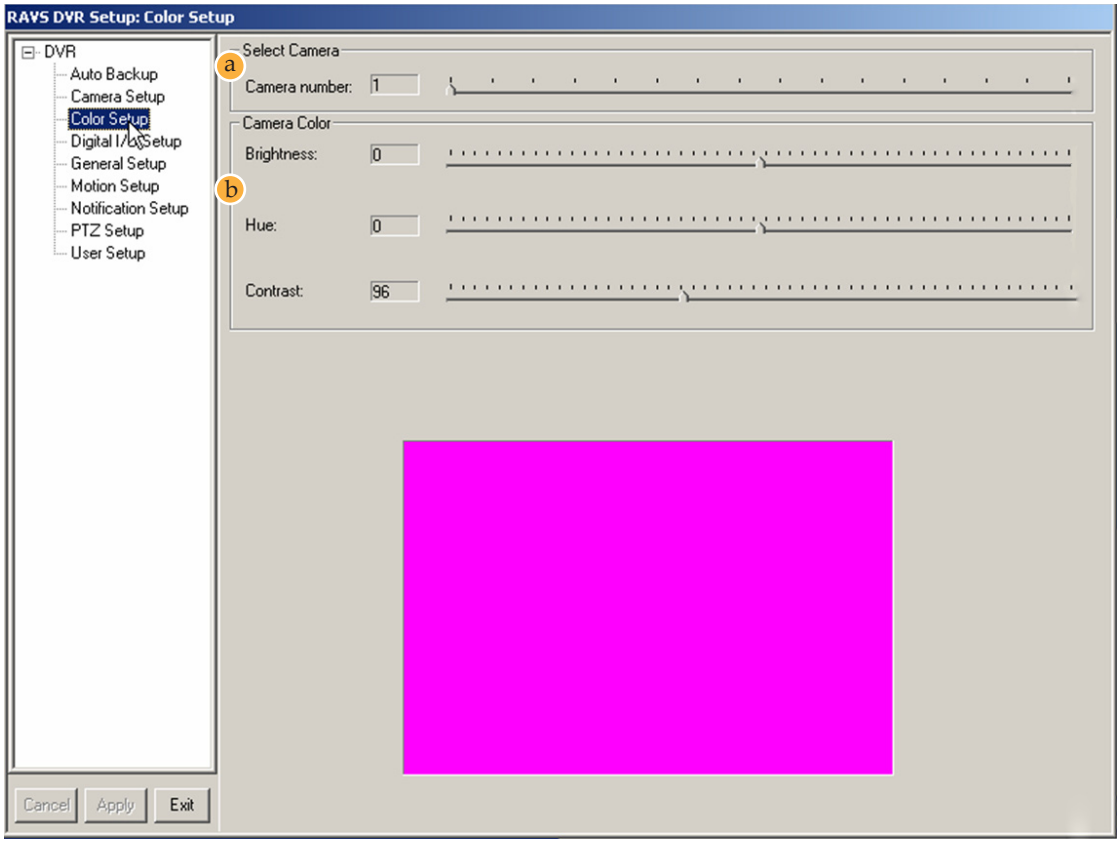
Then, click on the box representing the day and time you want the settings to take place. Each box represents one hour of time so to select a span of time, boxes for each hour of the time spread need to be selected. For instance, to record from 1:00 p.m. to 5:00 p.m. on Mondays, boxes 13, 14, 15, and 16 in row "M" would need to be selected. You will be able to see the schedule come together on the grid; when you select a grid box to set a command, the box will turn the same color as the command button selected. For example, grid boxes selected under "sensor" will turn purple when clicked. You can also have long spans of time with different command settings. Say on Wednesdays you want the camera to record on "Continuous" from midnight to 8:00 a.m., on "Sensor" from 8:00 a.m. to 2:00 p.m. and on "Stop" from 2:00 p.m. to midnight. Begin by clicking on "Continuous" followed by clicking boxes 0, 1, 2, 3, 4, 5, 6, and 7 in row "W" creating a line of 8 green boxes.

Next, click on "Sensor" and then boxes 8, 9, 10, 11, 12, and 13 in row "W" creating a line of 6 yellow boxes. activated, video will not be recorded. Monitoring will continue as normal.

Last, click on "Stop" followed by grid boxes 14, 15, 16, 17, 18, 19, 20, 21, 22, and 23 in row "M" completing the row with a line of 10 white boxes. With this, you can have each of your cameras running on a schedule 24 hours a day, 7 days a week.

Color Setup

The following screen will appear upon selecting “Color Setup”.



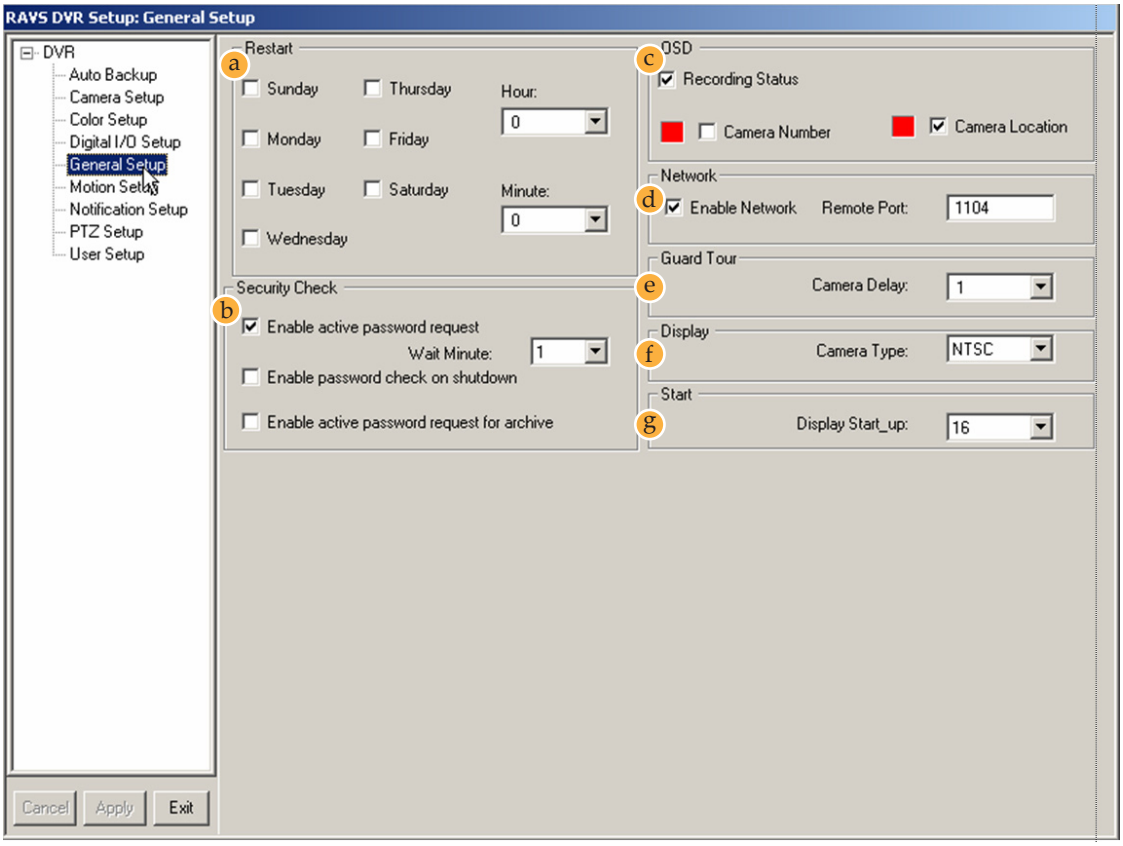
a Select Camera Mode

This slide bar allows you to select the specific camera your settings will be programmed to. Once selected, the changes to the settings can be seen/previewed on the screen below.

b Color Camera Mode

Here, the brightness, hue, and contrast can be adjusted for each camera. Use the slide bars to program your desired settings. The screen below shows you what your settings will look like as you make your choices.

General Setup



a Restart Mode

With the Restart function, you can program the system to automatically close, restart, and resume functions at specific days and times. To do so, check the box(es) relative to the day(s) and time that you want the program to restart.

Note: It is recommended that the system be set to restart at least once a week to restore/maintain memory and functioning capabilities. In addition, the restart time(s) should be set when someone will be present to confirm that the system restarts successfully and resumes proper functioning.

b Security Check Mode

Security Check Mode is a safety function that provides three different opportunities to require a username and password before giving system commands.

Selecting "Enable active password request" will require the username and password upon initial system activation. Selecting "Enable password on shutdown" will require the username and password be entered before the system can be shut down. Selecting "Enable active password request for archive will require a valid username and password be entered for access to archives/archive controls. Choosing a time from the pull down bar next to the "Wait Minute" option will have the system lock after that many minutes of operator inactivity (either keyboard or mouse) and the username and password will be required to re-gain access to the system.

Note: The username and password required would be the same ones used or changed to in the "Log in" process.

c OSD (On-Screen Display) Mode

In OSD mode, you can choose to display each camera's location, number, and recording status on their respective on-screen display in addition to the video image. To do so, check the box or boxes for each detail you want displayed.

Note: Go to the "Camera Setup" screen to enter each camera location (i.e. front door, cash register). It is this title that will be displayed should you select the "Camera Location" option here.

d Network Mode

Network mode allows for details involved in operating the system to be available through remote access. To allow for remote access, check the "Enable Network" box.

e Guard Tour

To enable the Guard Tour function, select the camera delay time (in seconds) from the drop-down menu.

f Display Mode

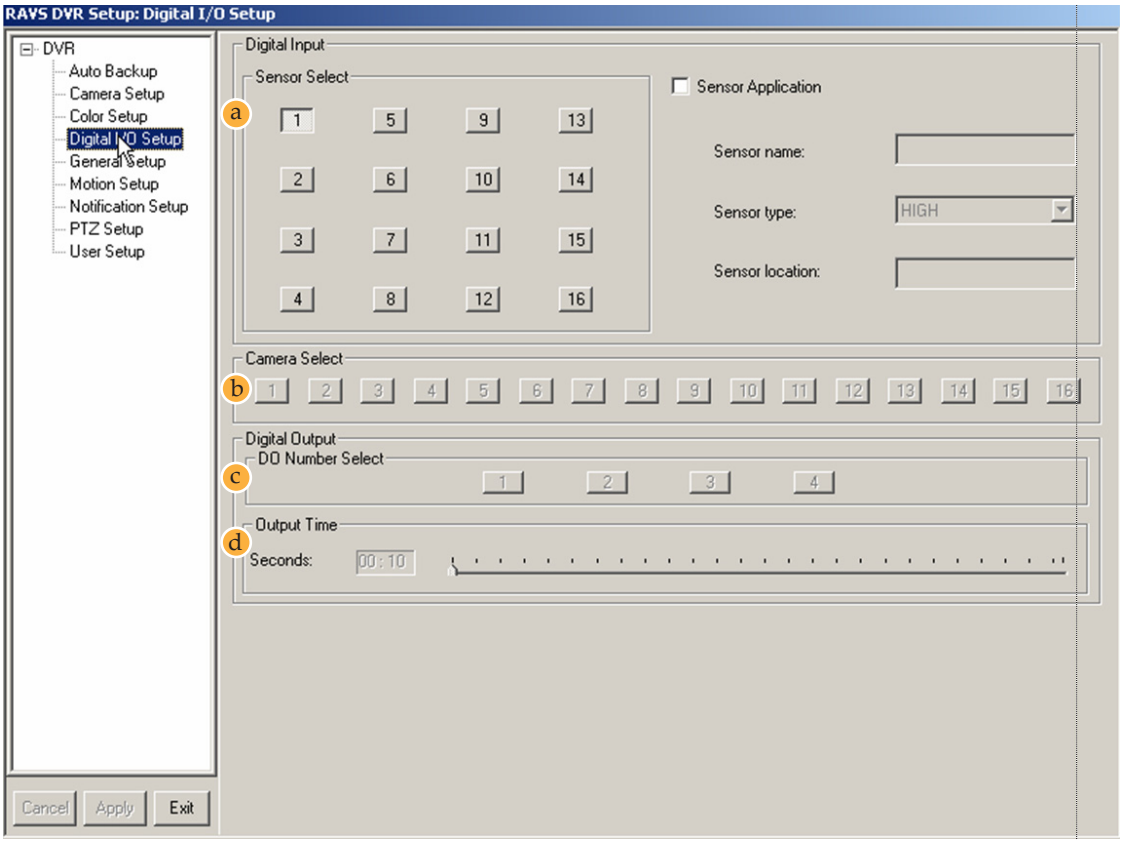
This option is in regards to the Overlay Scale. According to the type(s) of camera(s) you have connected to the system, select either "PAL" or "NTSC" from the drop-down menu as your choice of appropriate image display.

g Start Mode

The "Display Start-up" option allows you to choose how many camera images are displayed on the screen upon start up. For a sixteen-channel unit, you can have one, four, nine, or all sixteen video images. Make the selection in the drop-down box—1, 4, 9, or 16. The four channel unit is limited to one or four video images (1 or 4 in the drop-down box).

Digital I/O (Input/Output) Setup

You will see the following screen upon selecting the "Digital I/O" button.



Note: While the Digital Input/Output setup screen is included in the software for both the E-Series and R-Series, the settings and changes made only work for the I-Series units. Do not choose settings on this screen if you are using an E-Series unit as they will not be applicable.

a Sensor Select Mode

Pressing a numbered button will activate that respective sensor and ready it for configuration. Here you can activate and set details for each sensor. In order to use the selected sensor, check the "Sensor Application" box.

- Enter the sensor name in the "Sensor Name" box.
- Enter the sensor location in the "Sensor Location" box.
- From the pull-down menu, you can specify the sensor type in your configuration as:
  0: Low-active (1-0)
  1: High-active (0-1)

b Camera Select Mode

Here, select the cameras from the buttons labeled 1 to 16 that you want to record images when the sensor is triggered.

c DO (Digital Output) Number Select Mode

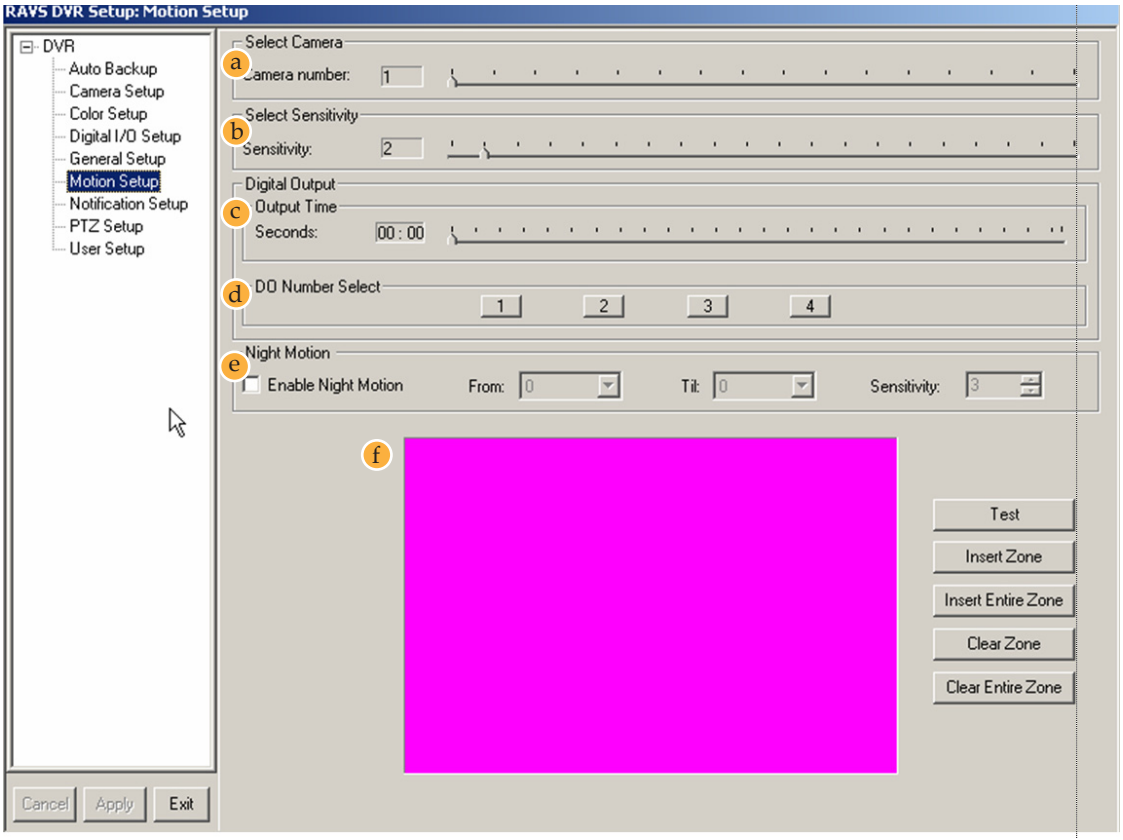
Pressing 1, 2, 3, or 4 will connect that DO to the above selected DI.

d Output Time Mode

You can also set a time for the DO sensors in the "Output Time" box by sliding the cursor to the right and stopping at the desired time. The selected amount of time will be displayed in seconds in the box to the left of the cursor.

Motion Setup

The "Motion Setup" screen is as follows:



a Select Camera Mode

Slide the pointer to the number of the camera you want to program motion detector settings for. Once selected, you can set the options that will be saved for that camera only.

b Select Sensitivity Mode

This controls the level of sensitivity that triggers motion detection. The most sensitive level is 1; the slightest motion at level 1 will trigger the recording of that particular camera. To avoid false detection from small animals, curtains moving in the wind, or other similar, normal movements, the sensitivity level should be set to a higher level. Know also that the sensitivity level directly correlates to the size of the motion detection zone. For example, if the sensitivity level is set at 1 for one of 10 zones on screen, it will be much more sensitive and responsive than one large zone set at 1. With this in mind, slide the pointer to the number that couples the sensitivity level you want to use.

c DO (Digital Output) Mode

Sliding the cursor on the left of the DO buttons will set the time for the length of the signal to the DO sensors. Now, when a motion detection event triggers a relay, it will close and stay in that position for the amount of time selected in the slide bar.

d DO Number Select Mode

Here you can specify the Digital Outputs to be coupled with specific cameras upon motion detection. Click on the DO numbers that you wish to associate with the Motion Detection of selected cameras.

e Night Motion Mode

The “Night Motion Mode” allows for different Motion Detection sensitivity settings for night use, as day settings may not be suitable.

Click the box on the left to enable the night motion option. In the “From” pull-down bar, select a start time, and select an end time in the “Till” box. Last, select a sensitivity level from the “Sensitivity” pull-down bar. Now, that sensitivity setting will be active during the night time hours set by you.

f Inserting MD (Motion Detection) Zones

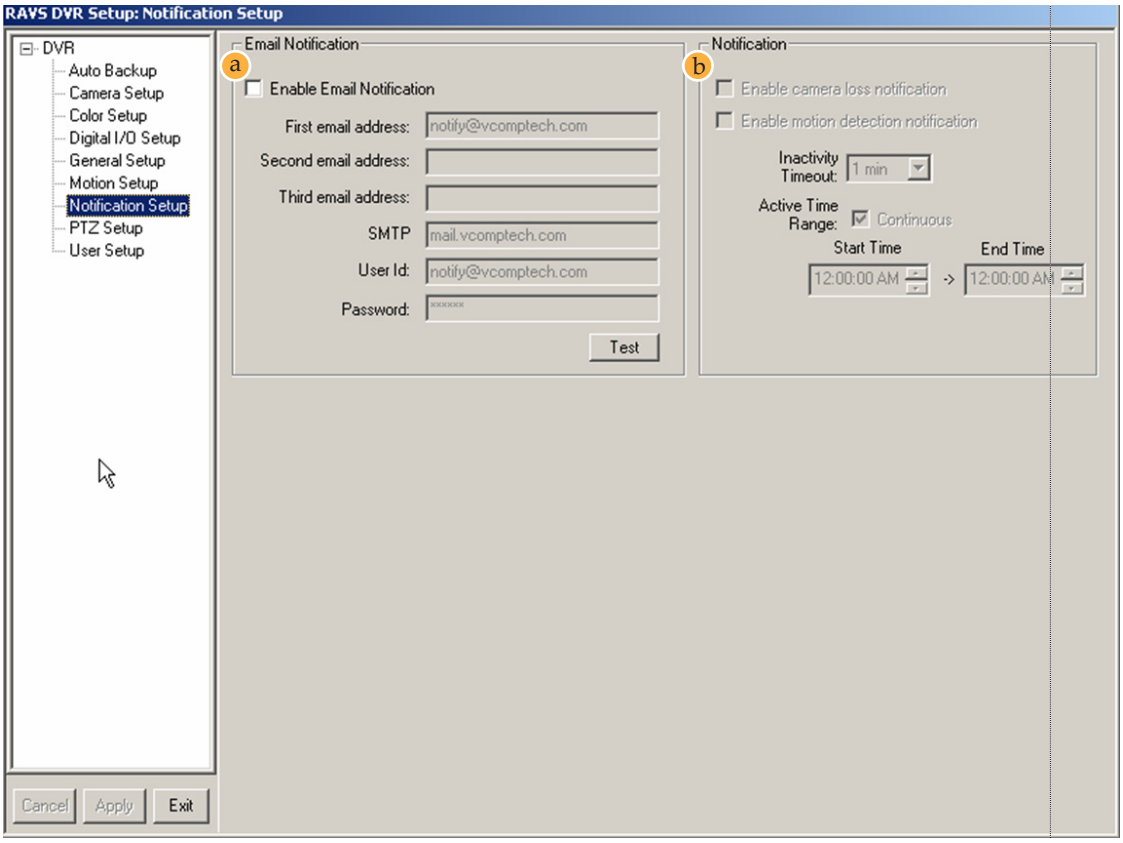
The box below allows you to select each camera individually and insert motion detection zones (specific areas within the video image to be triggered by motion). You can have up to 16 zones.

To do this, click on the “Insert Zone” box. An image of the area being recorded by the camera number you selected in “Select Camera Number Mode” will show in the box that is the shaded area above. From there, draw boxed zones into the image surrounding the area under surveillance you choose to be motion sensitive.

Insert Entire Zone: Selecting this option sets the entire area as an MD Zone.
Clear Zone: This will remove the last motion detection zone you created.
Clear Entire Zone: This will clear the entire zone of motion detection.

Notification Setup

These settings will program the system to notify you via e-mail when certain events take place within the system.



ⓐ Email Notification

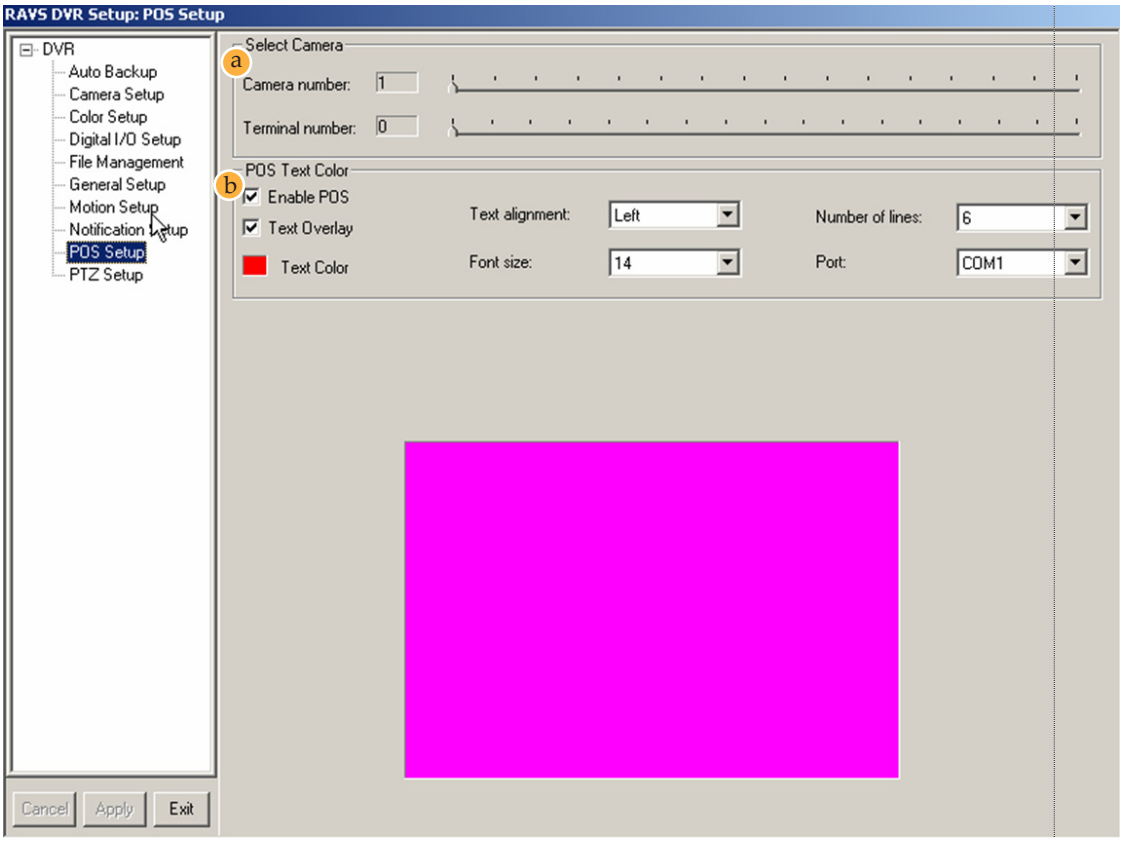
To enable the function, click the “Enable Email Notification” box. Next, fill in the necessary fields including email addresses, SMTP, User ID, and Password.

ⓑ Notification

Here you can make choices as to when the system sends you an e-mail notification. The system can send a notification e-mail when it looses a camera signal, detects motion, or both. Select either or both boxes per your preference. Next, the “Inactivity Timeout” pull-down menu controls the amount of time (in minutes) the system will wait before sending the notification. For example, if it is set for 10 minutes, when the system looses a signal or detects motion and it continues for 10 minutes, the system will then send a notification and will continue sending a notification every 10 minutes until the motion stops or the signal is fixed. The “Start Time” and “End Time” options allow you to program specific spans of time (anywhere from 24hrs. strait, to a few hours at a time) by entering a “Start Time” for the notification function to activate, and an “End Time” for the notification function to discontinue.

POS Setup

If you have chosen a system that includes POS options, the drop down menu to the left will include a “POS Setup” option and will bring up the screen below.



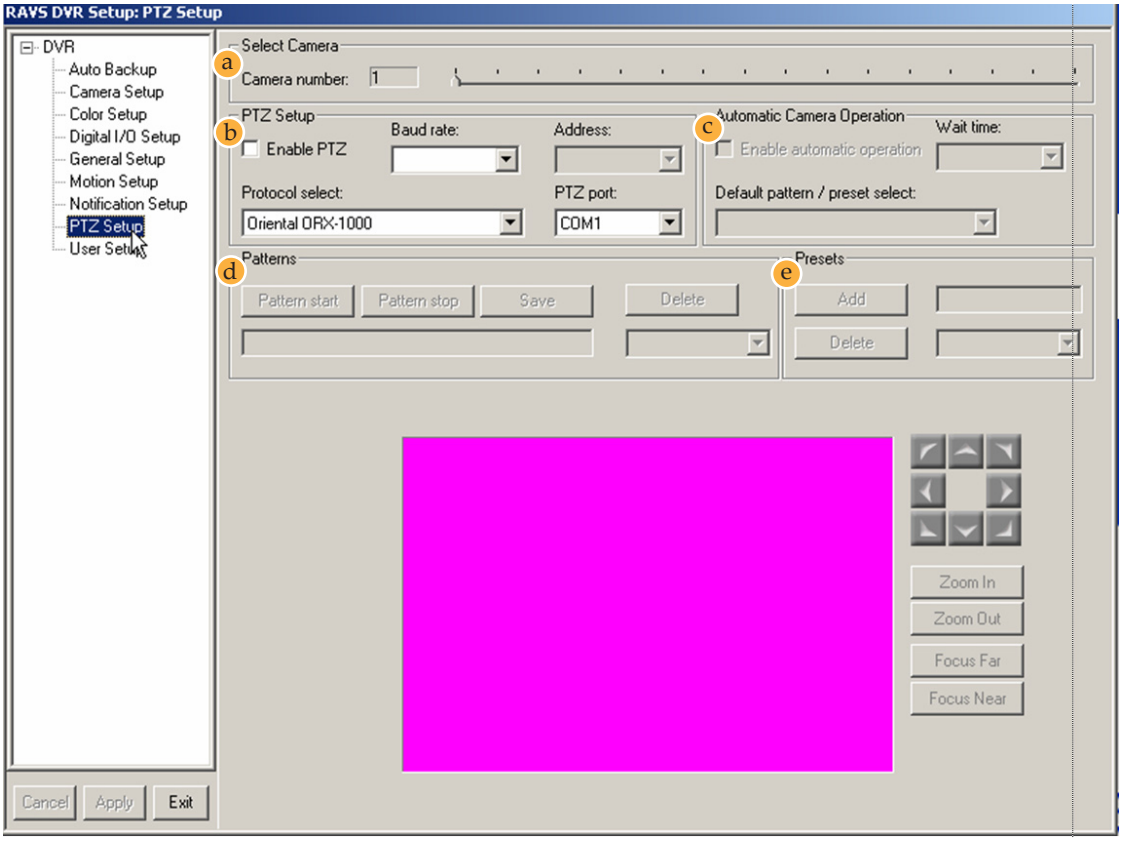
ⓐ Select Camera (Camera Number & Terminal Number)

Slide the cursors to the right to select the desired camera and terminal numbers for programming.

b POS Text Color

Here you program your POS settings. To enable POS, check the "Enable POS" box. Once checked, select from the "Text overlay" option, text color, font size, number of text lines you wish to include, and the "Text Alignment", or where you want the text to be displayed, and port.. Again, the POS Setup box will only be included if your system is one with POS options.

PTZ Setup



a Select Camera Mode

Sliding the cursor selects the camera to configure and use PTZ settings. These configurations and settings will only work if PTZ equipped cameras have been installed.

b PTZ Setup

To enable the PTZ functions, check the "enable PTZ" box. Next, make the appropriate selections from the pull down menus for "Protocol select", "Baud rate", "PTZ port", and "Address."

c Automatic Camera Operation

Here you can program patterns and presets that the cameras will automatically change to or operate under after a certain amount of time. To enable this function, select the "Enable Automatic Operation" box. Next, select the amount of "Wait Time" before the camera switches to the settings from the drop-down, and select the pattern or preset you want the camera to follow from the drop-down menu.

d Patterns

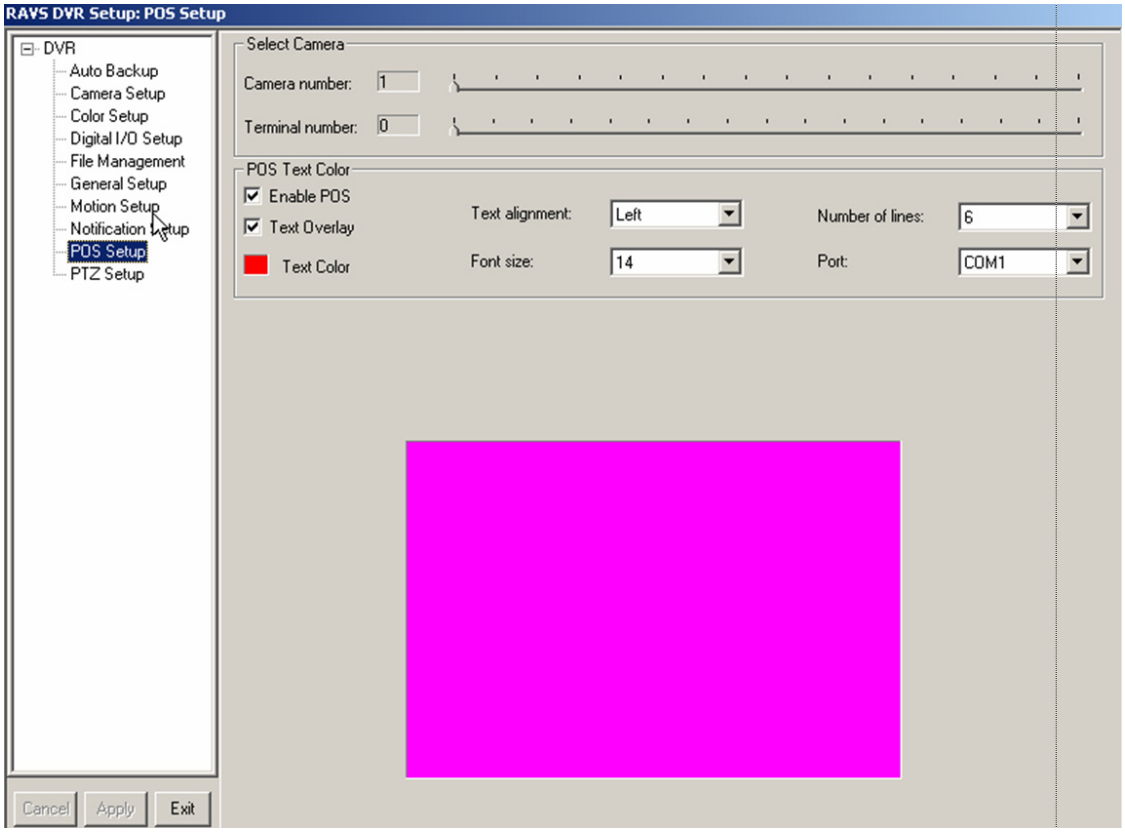
Here you can program PTZ camera patterns for the cameras to follow regularly. To do so, click the "Pattern Start" button. Then, enter the pattern using the direction, zoom and focus buttons below. When you have completed the pattern, click "Pattern Stop" followed by the "Save" button to save the pattern to the selected camera.

e Presets

Here you can add or delete presets which are pre-set directions/areas for the cameras to focus on and record. To do so, place the selection its necessary field and click either "Add" or "Delete."

Once the selections have been made and settings programmed, they can be viewed on the screen below the setting options and can be controlled by the control panel to the right using the direction, zoom, and focus keys.

User Setup

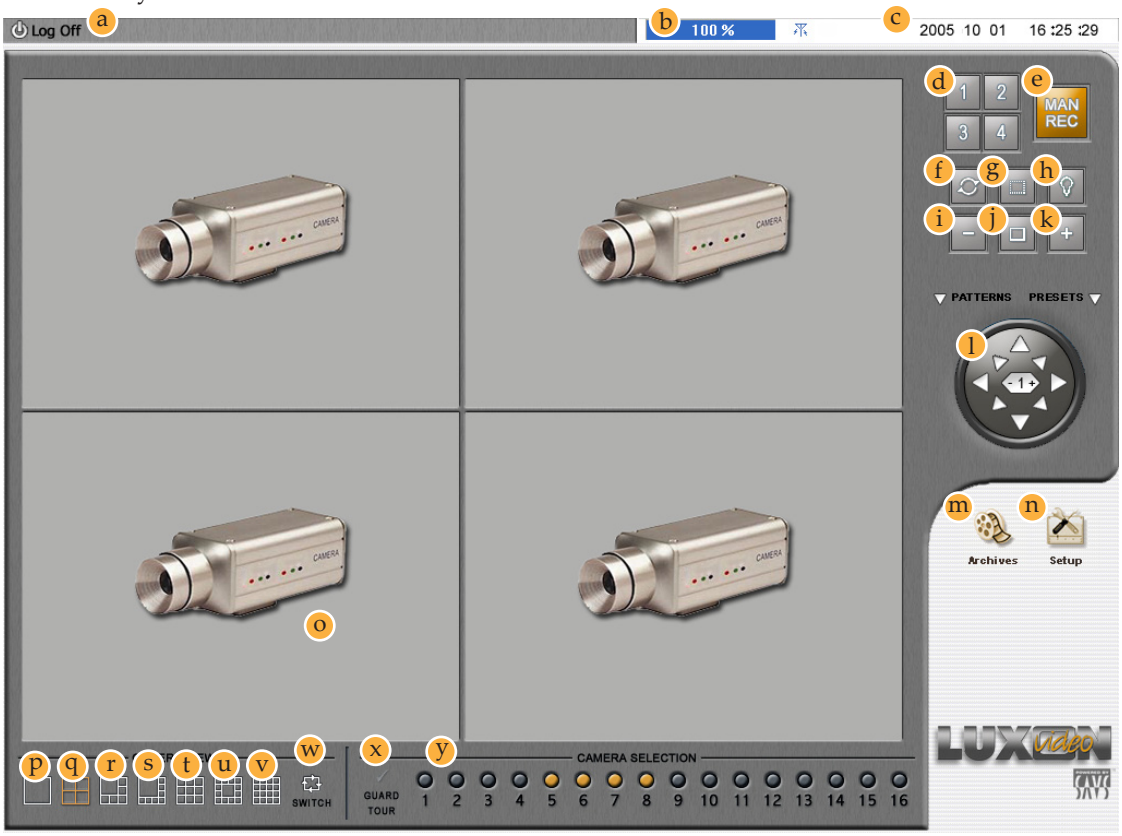


User Setup allows you to create and/or modify multiple profiles each with their own usernames, passwords and system accessibility settings. To create accounts, enter a username, password, and password confirmation in the empty fields on the left. Then, under "User Permissions", check the boxes to select the functions this user will have access to upon logging in. When done, click the "Add" button and that user and their settings will appear on the list at the top of the screen. Repeat for each individual user. In this example, the user admin has full access to the system.

Note: It is recommended that, after the initial system configuration/setup is complete, the system administrator change their username and password from the default settings ("admin" and "super") to something unique for privacy and security purposes.

IV. System Operation

When the configuration is completed, click the "Exit", and the following screen will appear. If the cameras are connected and the unit properly configured, operation will commence immediately.



Note: The above screen is what would appear if, in the Default Setup screen under "Start Mode", the "Display Start-up" pull down bar had been set to four. If sixteen had been chosen, sixteen images would be displayed on the opening screen. In addition, the control panel shown on the right will only be displayed if the "Enable PTZ" box was checked in "PTZ Mode" of Default Setup.

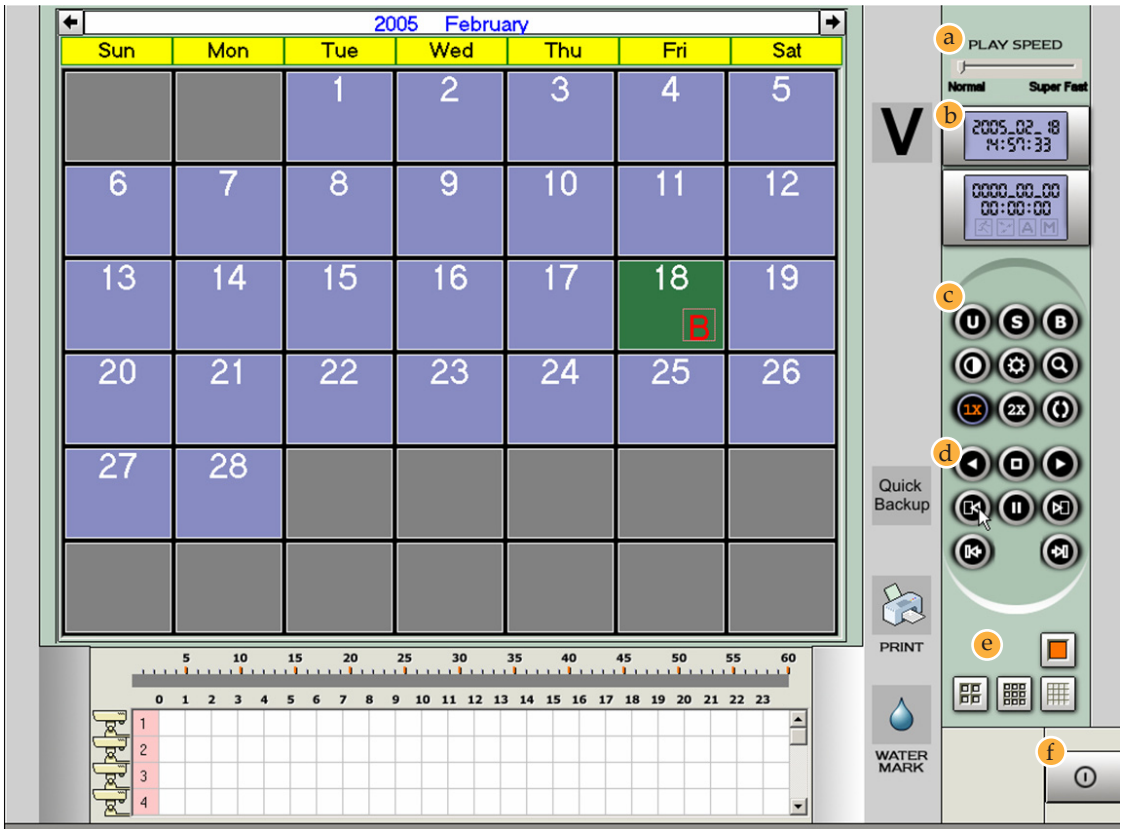
Controls

The following are the controls found on the main screen:

- a Log Off Button
- b Shows Current Image Box Status
- c Day, Time, and Program Status Display
- d Digital Output (DO) Controls – 1,2,3,4
- e Manual Recording Button
- f Auto Pan
- g j Near/Far: Pan/Tilt focus controls for near/far video
- h Camera Light
- i k Zoom in/out controls
- l PTZ Power and Direction Keys. To have this function available, the "Enable PTZ" box must be checked in the PTZ Setup.
- m Takes you to the "Search"/ "Archives" screen
- n Takes you to the "Setup" screen
- o If no video input, this image will occupy the respective display window.
- p Click to view a single video display
- q Click to view a four-video display
- r Click to view a six-video display
- s Click to view a eight-video display
- t Click to view a nine-video display
- u Click to view a thirteen-video display
- v Click to view a sixteen-video display
- w Automatically switch video monitoring between one, four, and eight videos.
- x Guard Tour
- y Pan/Tilt Camera Number: Selects the pan/tilt capable camera you wish to control from the bottom selection bar.

V. Search and Playback

Clicking on the archives (search) button will bring up this search screen.

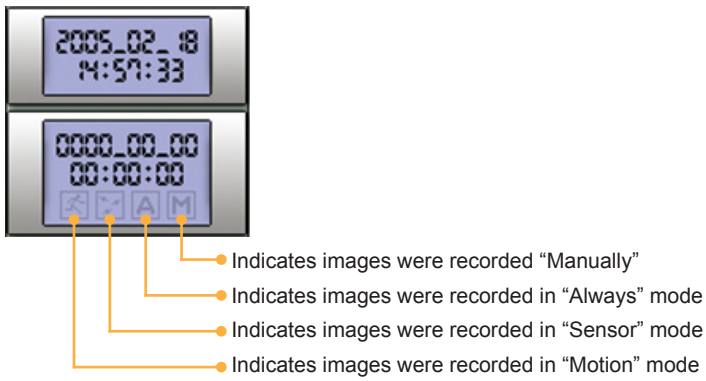


Search and View Playback works in two different modes: Search and Viewer. In Search Mode, you can look through and watch any previously recorded video saved within the system. In Viewer Mode, you can put a backup CD with recorded images into the CD drive to look through and view the images just as if it were Search Mode.

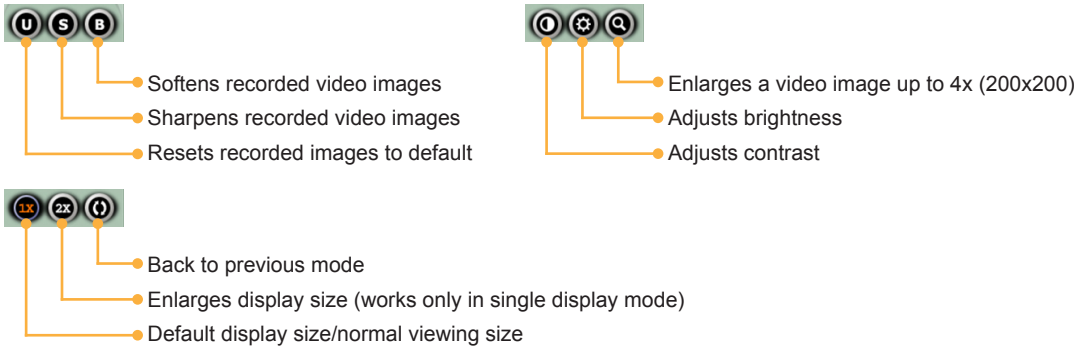
Control Panel

a Controls Playback Speed

b Information

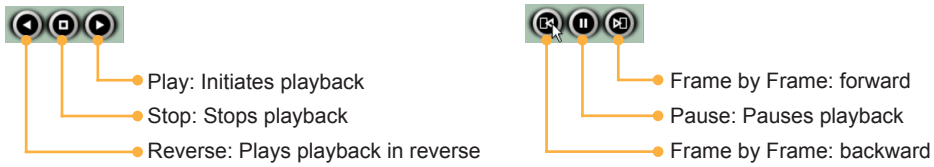

Indicates images were recorded “Manually”
Indicates images were recorded in “Always” mode
Indicates images were recorded in “Sensor” mode
Indicates images were recorded in “Motion” mode

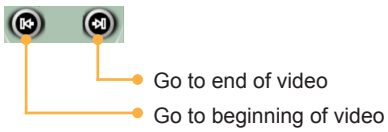
ⓒ Image Adjustment / Enhancement


Softens recorded video images
Sharpens recorded video images
Resets recorded images to default
Enlarges a video image up to 4x (200x200)
Adjusts brightness
Adjusts contrast

Back to previous mode
Enlarges display size (works only in single display mode)
Default display size/normal viewing size

ⓓ Video Control





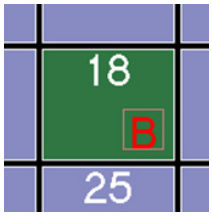
ⓔ Video Display

These four buttons are used to select the number of video images (1, 4, 9, or 16) that are to be displayed in the viewing area. To use this function, you must first pause playback.

ⓕ Exit

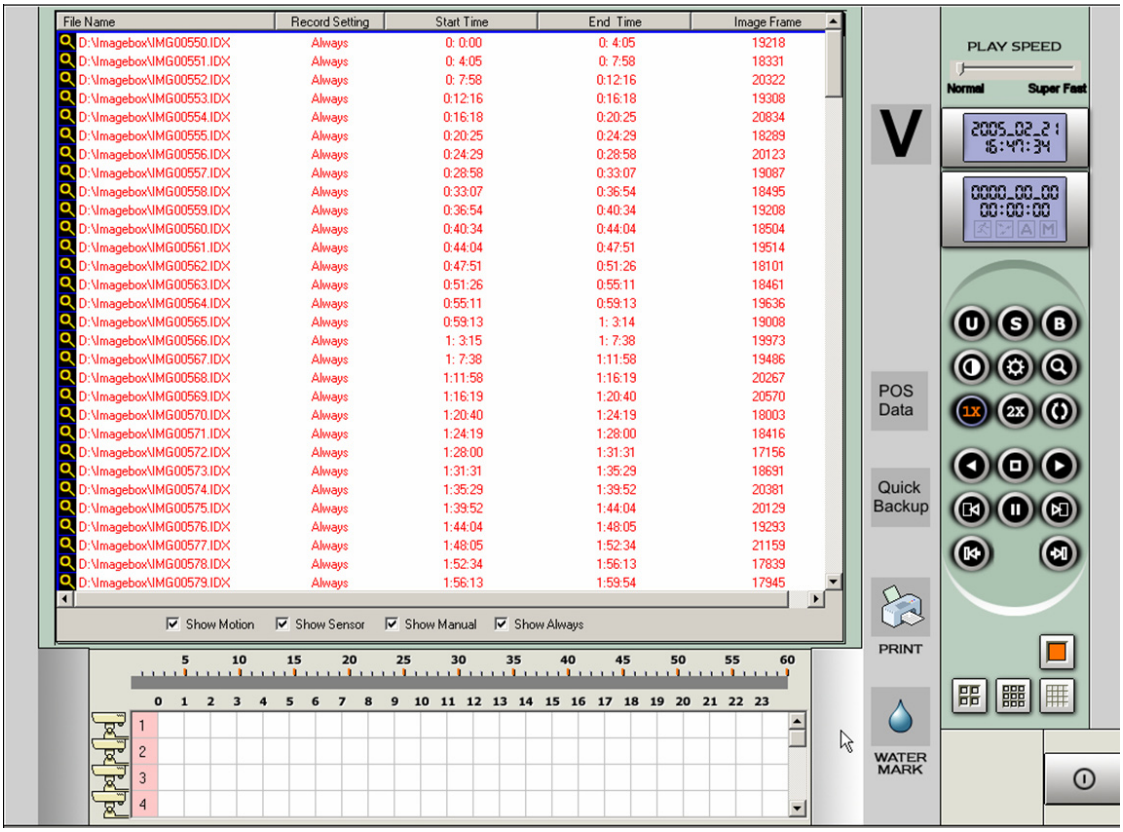
Click this button to exit.

Search Mode



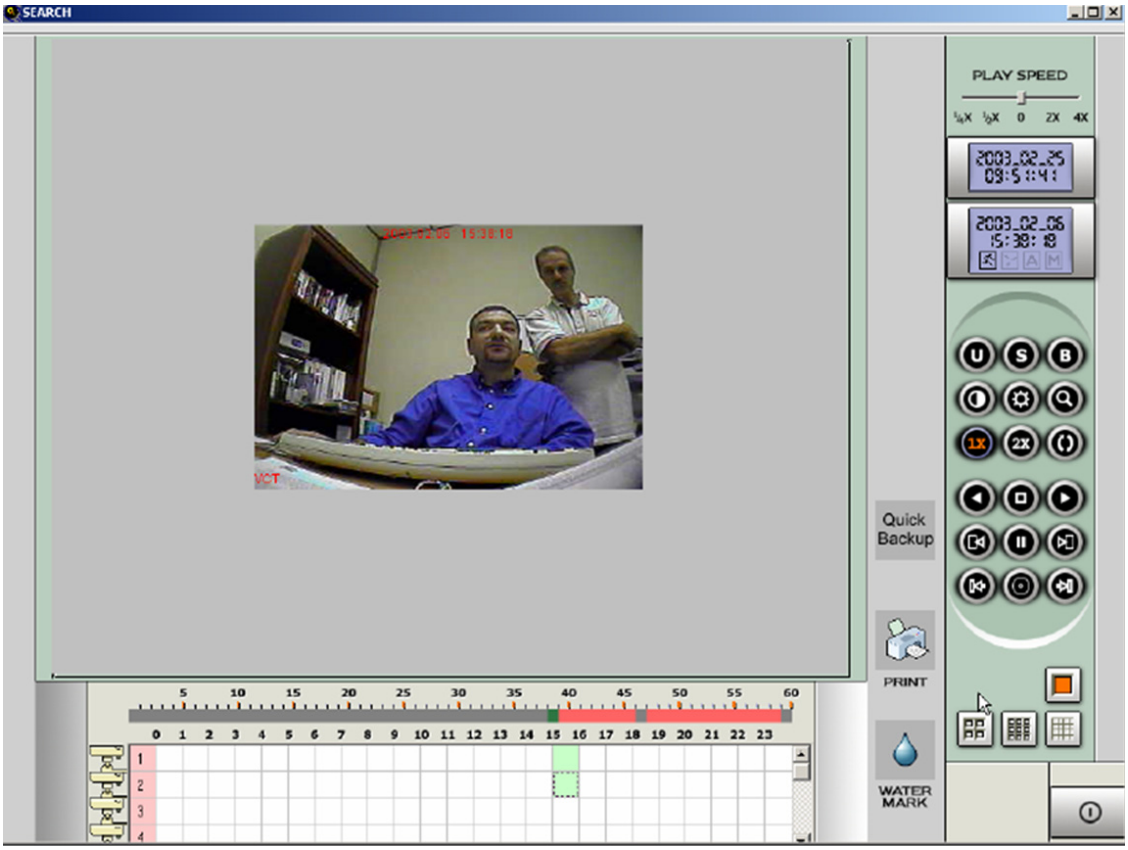
After pressing the "Archives" button, you will see the screen shown on the previous page and will be in Search Mode. Here, Recorded images can easily be searched for by date. If image data has been saved to your hard drive for a particular date, its' calendar square will be colored in green with a red "B" in the corner.

Double clicking on a date will bring up the following screen listing image boxes, the record setting (motion detection, sensor, manually, or programmed to record continuously), start and end time of the recording, and the image frames.


File Name
Record Setting
Start Time
End Time
Image Frame
D:\Imagebox\IMG00550.IDX Always 0: 0:00 0: 4:05 19218
D:\Imagebox\IMG00551.IDX Always 0: 4:05 0: 7:58 18331
D:\Imagebox\IMG00552.IDX Always 0: 7:58 0:12:16 20322
D:\Imagebox\IMG00553.IDX Always 0:12:16 0:16:18 19308
D:\Imagebox\IMG00554.IDX Always 0:16:18 0:20:25 20834
D:\Imagebox\IMG00555.IDX Always 0:20:25 0:24:29 18289
D:\Imagebox\IMG00556.IDX Always 0:24:29 0:28:58 20123
D:\Imagebox\IMG00557.IDX Always 0:28:58 0:33:07 19087
D:\Imagebox\IMG00558.IDX Always 0:33:07 0:36:54 18495
D:\Imagebox\IMG00559.IDX Always 0:36:54 0:40:34 19208
D:\Imagebox\IMG00560.IDX Always 0:40:34 0:44:04 18504
D:\Imagebox\IMG00561.IDX Always 0:44:04 0:47:51 19514
D:\Imagebox\IMG00562.IDX Always 0:47:51 0:51:26 18101
D:\Imagebox\IMG00563.IDX Always 0:51:26 0:55:11 18461
D:\Imagebox\IMG00564.IDX Always 0:55:11 0:59:13 19636
D:\Imagebox\IMG00565.IDX Always 0:59:13 1: 3:14 19008
D:\Imagebox\IMG00566.IDX Always 1: 3:15 1: 7:38 19973
D:\Imagebox\IMG00567.IDX Always 1: 7:38 1:11:58 19486
D:\Imagebox\IMG00568.IDX Always 1:11:58 1:16:19 20267
D:\Imagebox\IMG00569.IDX Always 1:16:19 1:20:40 20570
D:\Imagebox\IMG00570.IDX Always 1:20:40 1:24:19 18003
D:\Imagebox\IMG00571.IDX Always 1:24:19 1:28:00 18416
D:\Imagebox\IMG00572.IDX Always 1:28:00 1:31:31 17156
D:\Imagebox\IMG00573.IDX Always 1:31:31 1:35:29 18691
D:\Imagebox\IMG00574.IDX Always 1:35:29 1:39:52 20381
D:\Imagebox\IMG00575.IDX Always 1:39:52 1:44:04 20129
D:\Imagebox\IMG00576.IDX Always 1:44:04 1:48:05 19293
D:\Imagebox\IMG00577.IDX Always 1:48:05 1:52:34 21159
D:\Imagebox\IMG00578.IDX Always 1:52:34 1:56:13 17839
D:\Imagebox\IMG00579.IDX Always 1:56:13 1:59:54 17945
Show Motion
Show Sensor
Show Manual
Show Always
PLAY SPEED
Normal
Super Fast
POS Data
Quick Backup
PRINT
WATER MARK

Choose the image box you wish to view and double click on it. After doing so, the boxes in the grid below this screen matching the chosen image box's camera numbers and times will be highlighted. Double clicking the highlighted box representing the video you wish to view will bring up a playback screen showing the first frame of the video you chose as shown on the next page.

The hour blocks for each camera at the bottom will indicate if images were recorded, which camera(s) recorded images, and the time that these images were recorded by shading the respective box(es). After selecting an hour block of recorded images, press "Play" and playback will begin. From here, you can determine the exact time of the recording, and jump to different times within the recording by using the time (minute) slide scale directly above the camera/hour grid.



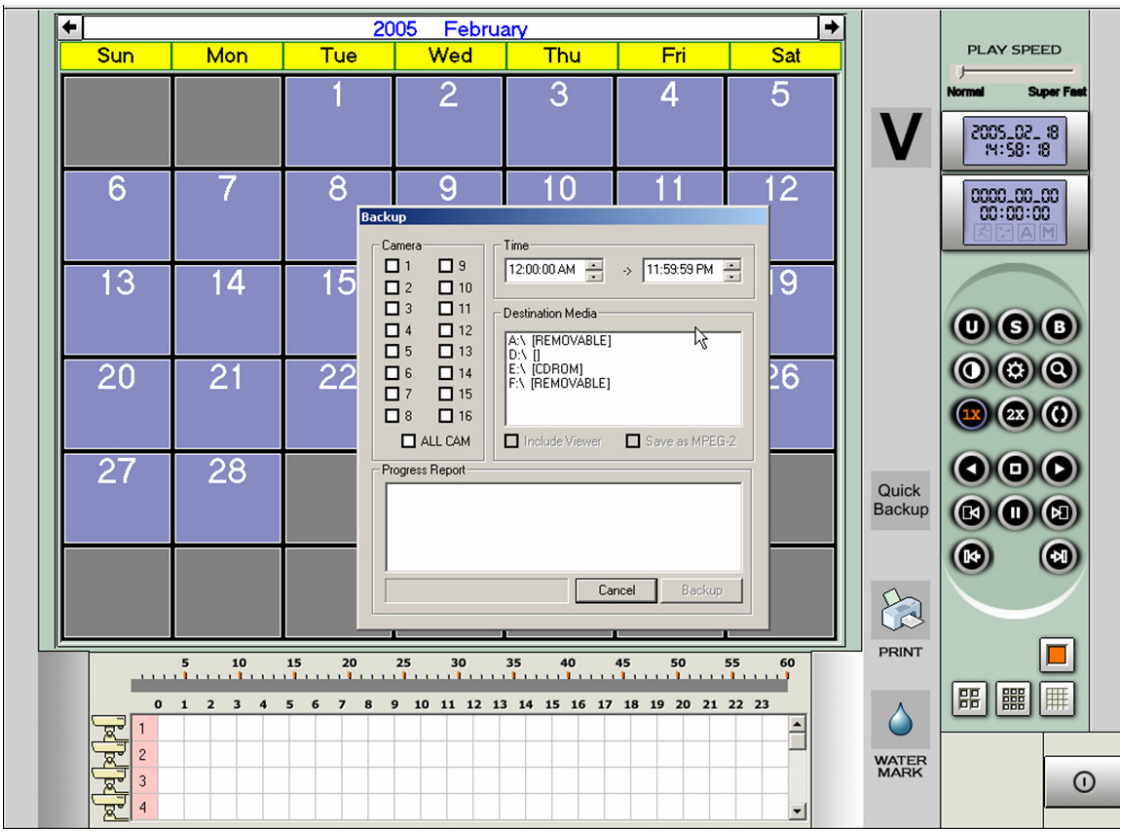
When you want to view a different time within the chosen hour block, simply press “pause” and drag the time scale marker to the time you choose to view. Press “pause” again to begin the playback at the chosen time.

You can also playback more than one camera. Be sure the video playback screen size is set to “1X”. Next, select the appropriate screen division: 1 screen, 4 screen, 9 screen, or 16 screen. Then, on the camera/hour grid below, select the boxes for the cameras and times you wish to view. Use the vertical side bar in the grid to select more camera numbers.

If you finish viewing one playback and want to make another selection from the image box list, you must first stop playback by clicking the “stop” key in the control panel. Next, click the “back to previous mode” key and the above shown screen with image boxes listed will come up again. From here, you can repeat the search/playback process as many times as you wish. When you finish and want to return to the regular system operation screen, press the “exit” key.

Backup

From the main search screen with the green shaded boxes, you have the option to perform backups. Each day containing recorded video is shaded in green and has the red “B” in the bottom corner. If you want to perform a backup, click on the “B” and the following screen appears on top of the search screen:



On this screen, you can choose a single camera, multiple cameras, or all cameras to include in the backup. You then select the time frame containing the video you want included in the backup. Next, select the drive to save the backup on. Last, two options are available: "Include Viewer" and "Save as MPEG-2". Checking the "Include Viewer" option will backup the video in a manner that makes the information remotely accessible in "Viewer Mode" (to be discussed below) on any other computer. "Save as MPEG-2" is an option that allows you to save images as MPEGs. This function will only work with one single camera selected. Once you have addressed each field, click "Backup" to complete the process.

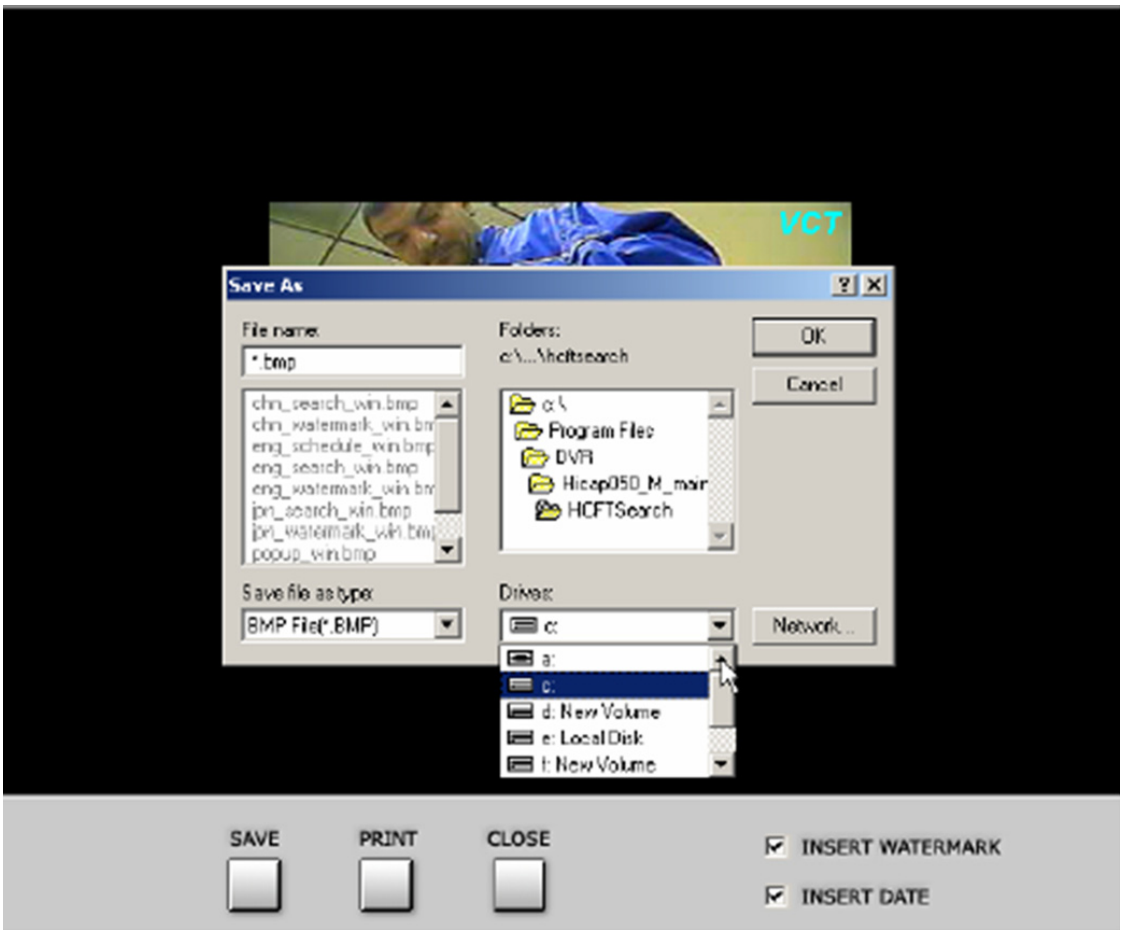
Viewer Mode

When you click on the "archives" key, you are automatically taken to the search screen in Search Mode. To get from there to Viewer Mode, place the back up CD in the drive first. Then, click the black "V" on the right near the control panel. The system will do its' own search to find the information on the back up CD, and the same screen used in Search Mode will appear for View Mode. From here, the process for searching the image boxes and playing recorded images is the same as in Search Mode and the same directions can be followed. To get back to Search Mode from View Mode, simply click on the "S" on the right where the "V" used to be.

Saving and Printing Still Images

It is also possible to save or print still images in both Search Mode and View Mode. First, the frame or image you want needs to be on the screen by pressing "pause" when the image appears during playback. (Keep in mind that pausing the video at the exact frame you want

to save or print can be made easier by slowing down playback to ¼ or ½ speed with the "Play Speed" control in the upper right corner of the control panel.) Once the image is paused on the screen, press the "Water Mark" button and a window will open giving you the option to save or print the image in addition to adding the date/time and keeping the watermark in the image. The boxes need to be checked or cleared before saving or printing. Pressing save will bring up the screen shown below.



A file name is created automatically using the date and time of the recording, but can be changed should you choose. To save the image, click on "Save" at the bottom of the screen. Select the drive you want the image saved to from the pull-down menu, followed by "ok", and the image is saved.

To print the image, click the "Print" button at the bottom of the screen followed by "OK" and the image will print. Again you have the choice to include or not to include the date/time or watermark but the boxes must me checked (or cleared) before selecting "Print".

There is a second "Print" option. While watching playback, pause the image and click on the "Print" icon. This does not allow for choices to be made regarding the watermark or date/time. Instead, pressing the icon will bring up a print screen where you will be asked to select your printer. After doing so, press okay and the image will print.

In all cases, when finished, closing the window will take you back to whichever mode you were in, either Search Mode or View Mode.

Quick Backup

The “Quick Backup” option is only available in Search Mode and allows you the option to backup the video playback you watch. With the video on the screen, click “Pause” during the playback followed by the “Quick Backup” icon. A screen will appear where you will select the camera number, and the drive its’ images will be saved to. Clicking okay will conclude the process and the quick backup is complete.

POS Data

As with the POS options mentioned in “Color Mode”, the “POS Data” icon will only be available if you have a system that supports the POS functions. If not, the icon will not be on the screen. The POS Data screen is accessed through the calendar. Click on a day with information saved (indicated in green) and then click on the “POS Data” icon. A screen will come up that lists the employee, shift ID, Terminal number, date/time, and transaction (no sale, sale, cancel, void, etc.). With this, you can keep track of each transaction that takes place and use the information (date/time) to find the corresponding video playback. This allows you to monitor activity two ways: through transactions and live video recordings.

VI. Client Software (Remote Access)

General Information

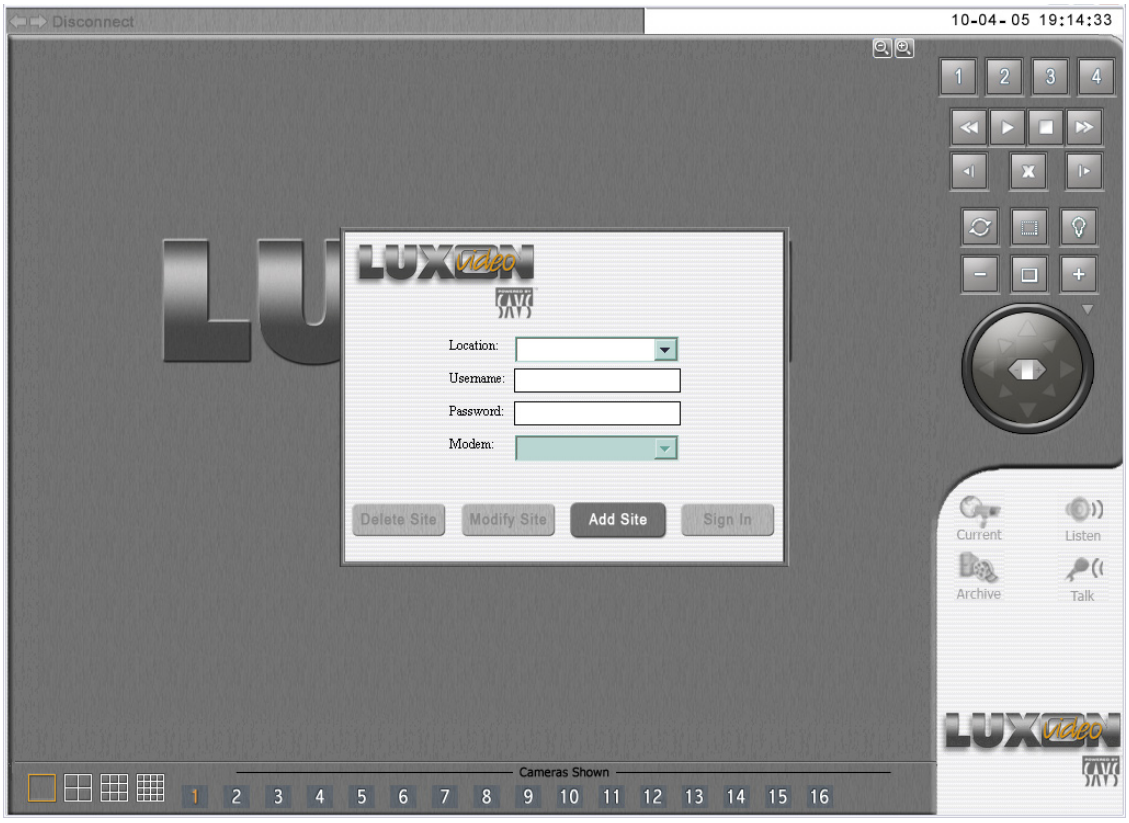
The remote program allows for monitoring videos and controlling PTZ cameras from a remote site(s), saving monitored videos and playback in a remote site(s), as well as searching for recorded videos in the main Elite Series site.

The remote program will only be able to connect to an Elite Series unit if the "Enable Network" box in the "Default Setup Mode" screen in checked. Thus, before installing the Remote Program, be sure the box is checked.

Installation and Setup

To install the Remote program on your system, simply click the "Client Software" button on the main menu of the VCT installation disk and follow the directions.

After installing, you will find this shortcut icon on your desktop. Double-clicking the icon will bring up the viewing/login screen.



Click on "Add Site" to enter the required information into the open fields including viewing location, username, password, and modem (if applicable). When finished entering the information, click "Save" to save your logon information, than from "Location" select your logon information and click on "Sign In" the connection automatically initiates. If the connection is successful, the "Disconnect" icon will show up in the upper left corner of the screen and a video image will appear. You will then see this screen where you can access all functions of the Client software.

Monitored Video and PTZ Camera Controls

If you have installed a PTZ camera with your main Elite Series system, you can also control the PTZ cameras remotely.

The following are the controls you can access found on the main screen:

a If the connection is not successful, the “Connect” icon will show in the upper left corner of the screen. Clicking it will initiate the connection again.

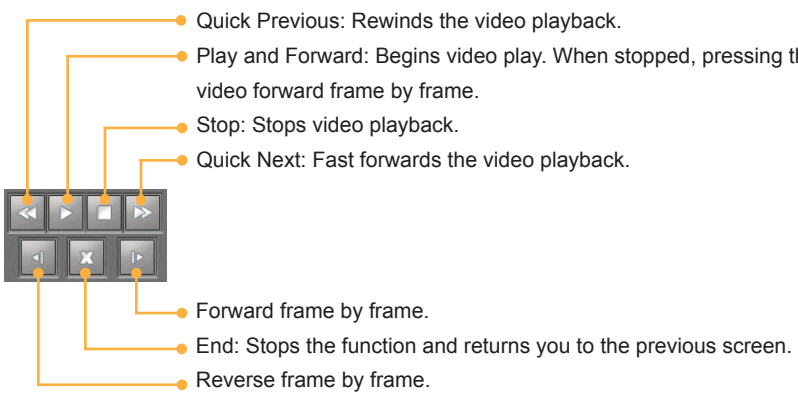
b Shows Current Image Box Status

c Displays day, time at the server location, program status, and the day and time of your machine along the top of the screen.

d Actual size/Double size: From a single screen display, pressing the “Double Size” button will change the image to full screen. From there, pressing the “Actual Size” button reduces the image to its normal size.

e Digital Output (DO) Control: Selects the DO Control number by pressing the numbered button.

f Video Controls


Quick Previous: Rewinds the video playback.
Play and Forward: Begins video play. When stopped, pressing this button will move the video forward frame by frame.
Stop: Stops video playback.
Quick Next: Fast forwards the video playback.
Forward frame by frame.
End: Stops the function and returns you to the previous screen.
Reverse frame by frame.

g Video Adjustment/Enhancement

Auto Pan: This option programs the device to pan automatically.

Near/Far: Pan/Tilt focus controls for near/far videos.

Softens recorded video images

Note: These options are only available if you have installed a PTZ camera that supports these functions.

Zoom In

Near/Far: Pan/Tilt focus controls for near/far videos.

Zoom Out

h Speed and Direction Keys: controls Pan/Tilt movement. *

i From a different screen (such as “Archives”), clicking “Current” will take you back to the video in progress.

j If the location being monitored has audio, pressing the “listen” button will allow you to hear the audio. To do so, you must be viewing that source’s video on a single screen display.

k If a microphone is connected to your computer, press the talk button, speak into the microphone, and it will be heard at the location being monitored.

l If the location being monitored has audio, pressing the “listen” button will allow you to hear the audio. To do so, you must be viewing that source’s video on a single screen display.

m If there is no video input, this image will occupy the respective display window.

n Click to view a single video display

o Click to view a four-video display

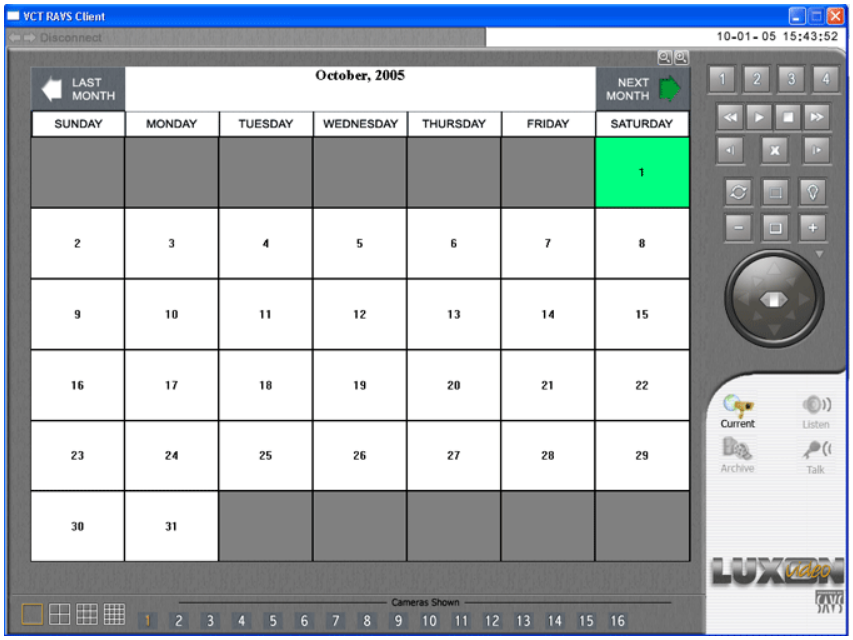
p Click to view a nine-video display

q Click to view a sixteen-video display

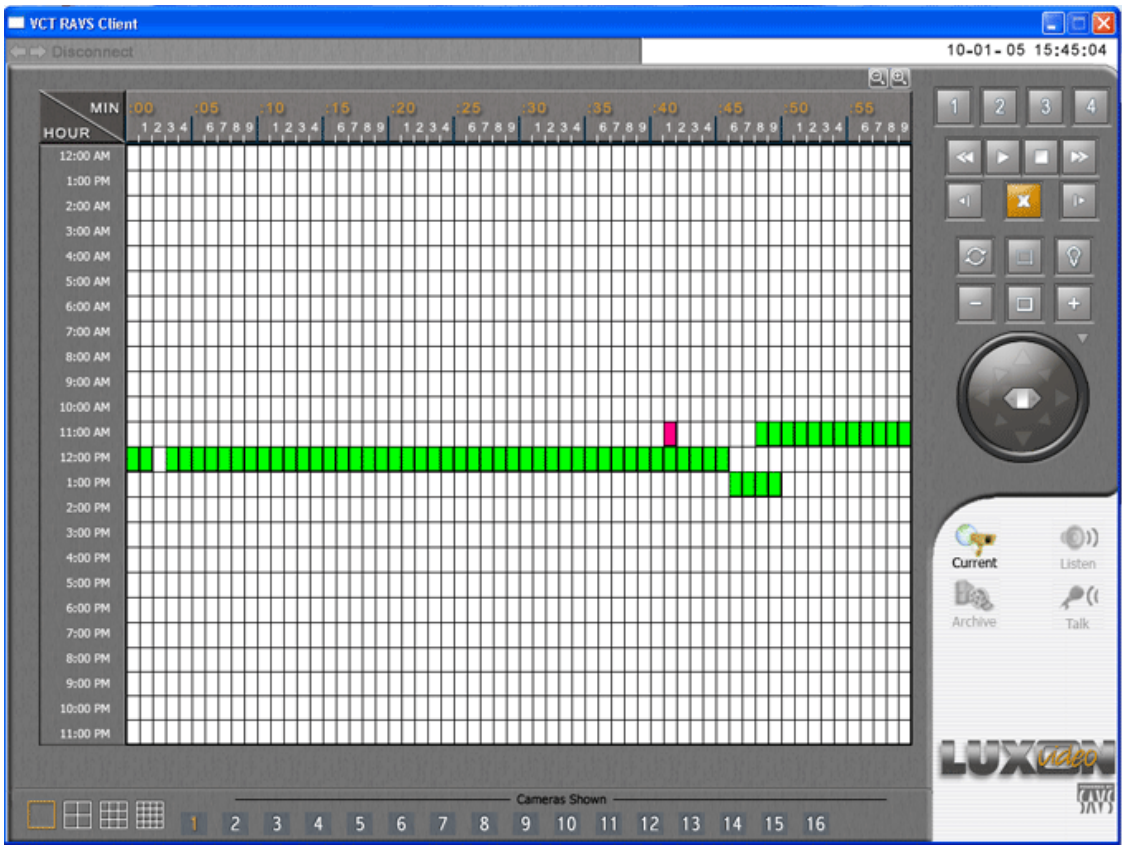
r Pan/Tilt Camera Number: Selects the pan/tilt capable camera you wish to control from the bottom selection bar.

Searching for and Playing Saved Video from the Main Elite Series System

To search image boxes for recorded video in the main Elite Series System, click on the "Archive" button. The system will display the image box information from the main system on a screen that looks like this. Shaded boxes contain saved video, white boxes are empty.



Double click the date you wish to view and you will see this next screen:



This screen is a grid of the selected day. Separated into hours and minutes, each box represents a specific time of the selected day during which video was recorded. As with the calendar above, the shaded boxes contain video, white boxes are empty. Double click on the box representing the time of the video you wish to view. The images will play on the viewing screen and can be manipulated with the control panel on the right.

Controls function in the same way as the previous screen.

VII. Additional Product Information

Return Policy

Returned merchandise is subject to a 15% restocking charge. Merchandise must be returned within ten days. Opened software cannot be returned, unless defective. This includes hardware items with bundled software and/or drivers. Products that have become discontinued may not be returned.

All return shipments must be in the original packaging and must include a Return Merchandise Authorization (RMA) number clearly marked on the package or they will not be accepted.

Defective merchandise is exempted from the restocking fee. A defective product is one which has a manufacturing or media defect such that it does not perform as specified by the manufacturer. In the event that products returned as defective are in working condition, the return may be effused and the customer is responsible for both inbound and outbound shipping charges.

An RMA number can be obtained by sending a communication via mail, fax, or e-mail outlining the problem being sure to include the serial number of the product. You should preferably use the RMA Request Form. The company will reply with an RMA number and a return shipping address. Return shipping cost is the responsibility of the customer.

Warranties

All products supplied by the company are warranted to be free from manufacturing defects for a period of one (1) year from the date of shipment, and any found to be defective within that period will be repaired without charge under given circumstances:

The product was used as recommended and in accordance with approved installation and operating practices.

The product's failure resulted from a manufacturing defect and not from damage due to misuse.

Written notice of such defect is delivered to the company during such one (1) year period.

The product is returned to the company with shipping charges pre-paid.

This express warranty is in lieu of and excludes all other warranties, guarantees, or representations expressed or implied. There are no implied warranties of merchantability or of fitness for a particular purpose.

Shipping and Damage Claims

Any claims of damage to items during shipping should be reported to the respective shipping carrier. It is the customer's responsibility to handle all shipping damage claims with the shipper. Any damages incurred during shipping will not be the responsibility of the company.

Technical Support

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E-mail: support@vctvision.com